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ANNUAL REPORT

on the


HEALTH OF WORTHING

and

Meteorological Observations for the Year

1949

G. H. PRINGLE,
M.R.C.S., L.R.C.P., D.P.H.
Medical Officer of Health.



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Health Department,
Worthing Lodge,
Stoke Abbott Road,
Worthing.
July, 1950.

*To His Worship the Mayor, Aldermen and Councillors of the Borough
of Worthing.*

Mr. Mayor, Ladies and Gentlemen,

I present herewith my third Annual Report on the Health of Worthing, together with the Meteorological Observations for the year.

As far as can be judged from a study of the vital statistics, the general standard of health of the town remains satisfactory. The extremely low Infantile Mortality Rate of 20 per 1,000 live births equals the previous lowest figure recorded in the 1934 report.

During the early summer months measles was prevalent and 290 cases were notified. There were during the year 7 cases of acute poliomyelitis with one death.

For information I have included my report on the first complete year's work as Medical Officer to the Worthing County Health Sub-Committee.

I should like to express my appreciation of the deep interest taken in the Health Services of the Borough by the Chairman and members of the Health Committee and by other members of the Council.

I also wish to record my sincere thanks to Dr. Aitken, my Deputy, to Mr. White and the District Inspectors, and to every member of the clerical staff for all their assistance and co-operation.

I am,

Mr. Mayor, Ladies and Gentlemen

Your obedient servant,

G. H. PRINGLE,
Medical Officer of Health.

BOROUGH OF WORTHING

Health Committee :

(as at 31.12.49)

COUNCILLOR T. D. RABY, L.D.S., R.C.S. (ENG.), (*Chairman*)

COUNCILLOR R. A. MITCHELL (*Vice-Chairman*)

ALDERMEN Dr. E. G. ANNIS, E. R. WILLOUGHBY, F.R.H.S.

COUNCILLORS T. A. CLIFFORD, Mrs. C. S. CORTEEN, B.A.

Mrs. M. I. KEELE, E. E. KEYS, D. W. MORECRAFT, LT: COL. R. C. STROLOGO, O.B.E.,
Mrs. R. E. SUMMERS.

Health Department Staff :

Medical Officer of Health.

G. H. PRINGLE, M.R.C.S., L.R.C.P., D.P.H.

Deputy Medical Officer of Health.

J. C. AITKEN, M.B., CH.B., D.P.H.

Chief Sanitary Inspector: S. S. WHITE, M.S.I.A., A.M.I.S.E.

Deputy Chief Sanitary Inspector: H. F. JOWETT, M.S.I.A.

District Sanitary Inspectors: T. MARSHALL, M.S.I.A.
D. E. PARKER, M.S.I.A.
A. H. MATTHEWS, M.S.I.A.

Clerical Staff:

Chief Clerk: T. L. CANTON

Clerks: S. F. JUPP
Miss B. M. WHITE
Miss P. M. MAY
R. B. CARROLL

Meteorological Observers T. L. CANTON
S. F. JUPP

Other Staff:

Rodent Operator: J. H. OGLESBY

Disinfector and General Assistant: .. F. A. SQUIBB

SECTION 1.

Pages

Report of the Medical Officer of Health on the
Health of Worthing:—

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GENERAL STATISTICS, 1949.

Area of Municipal Borough, including foreshore	..	8512.742 acres
Population (Census 1921)..	..	31,520
Population (Census 1931)..	..	46,230
Registrar-General's Estimate of Resident Population (1949)	..	67,940
Number of inhabited houses (1921)	..	7,710
Number of inhabited houses (1.4.1949)	..	22,429
Rateable Value (1.4.1949)..	..	£988,244
Sum represented by a penny rate, 1948-49	..	£4,027 16s. 10d.

Registered Live Births:—

	Total	M.	F.
Legitimate	760	414	346
Illegitimate	38	20	18

Live Birth rate per 1,000 estimated population .. 11.7

Still Births:—

	Total	M.	F.
Legitimate	14	7	7
Illegitimate	6	3	3

Still Birth rate per 1,000 (live and still) births .. 24.4

Birth Rate (Live and Still) per 1,000 estimated population .. 12.0

	Total	M.	F.
Deaths	1209	529	680

Crude Death rate per 1,000 estimated population .. 17.8

Corrected „ „ „ „ „ .. 10.0

Maternal Deaths .. 1

Deaths from Cancer .. 213

Deaths from Scarlet Fever .. —

Deaths from Measles .. —

Deaths from Diphtheria .. —

Deaths from Whooping Cough .. —

Deaths from Enteric Fever	..	..	..	—
Deaths from Diarrhoea (under 2 years)	..	..	..	2
Zymotic Death Rate	..	..	..	0.03
Deaths of Infants under 1 year of age:—				
All Infants	..	..	..	16
Rate per 1,000 live births	..	..	..	20
Legitimate Infants	..	..	..	16
Rate per 1,000 legitimate live births	..	..	..	21
Illegitimate Infants	..	..	..	—
Rate per 1,000 illegitimate live births	..	..	..	—
Mean Annual Temperature (1949)	..	..	..	52.8°
Total Rainfall (1949)	..	..	..	23.90 inches
Hours of Bright Sunshine (1949)	..	..	..	2128.9 hours

VITAL STATISTICS 1908—1949. TABLE I.

Year.	Births.		All causes.		Infants under 1 year.		Maternal Mortality		Zymotic.		Tuberculosis		Cancer.		General's Popu-lation
	No.	R. *	No.	R. *	No.	R. **	Sepsis.	Other Causes†	No.	R. *	No.	R. *	No.	R. *	
1908	531	19.9	414	13.5	58	109	1	4	18	0.67	37	1.39	47	1.77	26,600
9	518	19.0	360	12.2	39	75	—	—	12	0.44	45	1.65	33	1.21	27,200
10	548	19.7	388	12.1	36	66	1	—	8	0.28	43	1.55	41	1.47	27,800
11	532	17.4	397	12.0	56	105	—	—	50	1.64	37	1.21	45	1.47	30,500
12	486	15.5	355	10.4	20	41	—	—	5	0.16	37	1.18	37	1.18	31,300
13	504	15.6	400	9.9	34	67	1	1	12	0.37	27	0.84	39	1.22	32,160
14	483	14.6	428	10.1	29	60	—	1	18	0.54	34	1.03	42	1.27	33,000
15	457	14.2	507	12.5	28	61	—	3	14	0.44	56	1.75	49	1.53	32,000
16	468	15.5	418	12.5	31	66	—	—	7	0.18	46	1.66	58	2.09	27,766
17	359	11.9	415	12.5	23	64	—	—	9	0.32	41	1.48	63	2.28	27,662
18	419	12.9	511	14.7	32	76	—	—	13	0.45	38	1.32	73	2.53	28,780
19	376	12.1	478	12.5	21	56	1	—	4	0.13	35	1.15	49	1.61	30,345
20	583	18.5	434	11.4	23	39	—	—	6	0.19	29	0.92	50	1.58	31,555
21	487	15.5	441	11.5	29	59	1	2	7	0.20	32	1.02	63	1.99	31,520
22	404	12.8	472	11.5	21	52	1	—	2	0.08	35	1.11	59	1.87	31,460
23	401	12.8	428	10.4	18	45	1	1	4	0.14	26	0.83	55	1.75	31,440
24	426	13.3	537	13.0	21	49	—	1	2	0.07	32	0.99	81	2.51	32,260
25	442	13.4	452	9.7	21	48	—	1	9	0.27	28	0.85	60	1.82	32,950
26	423	12.1	536	10.8	17	40	—	1	5	0.14	30	0.85	90	2.56	35,060
27	432	11.9	571	11.1	20	46	1	2	7	0.19	28	0.76	84	2.31	36,350
28	462	12.2	548	10.2	17	37	1	1	12	0.31	26	0.68	87	2.29	38,030
29	494	11.9	684	11.6	12	24	—	1	4	0.10	34	0.82	103	2.49	41,410
30	534	12.6	640	10.7	18	36	—	2	3	0.07	37	0.87	104	2.46	42,340
31	553	12.5	690	11.0	20	37	2	2	5	0.11	46	1.04	101	2.28	44,320
32	513	11.0	781	11.9	20	39	4	3	9	0.20	39	0.84	101	2.17	46,470
33	514	10.6	715	10.4	18	38	2	—	6	0.12	33	0.68	104	2.14	48,530
34	615	11.9	756	10.1	12	20	—	1	3	0.06	34	0.66	133	2.58	51,580
35	621	11.5	744	9.5	25	40	1	—	4	0.07	36	0.67	125	2.32	53,930
36	687	12.4	870	10.8	23	35	—	3	3	0.05	25	0.45	153	2.75	55,540
37	729	12.4	916	10.8	33	45	—	—	2	0.03	42	0.72	138	2.35	58,600
38	712	10.8	917	10.7	20	29	—	1	4	0.07	31	0.52	151	2.56	59,080
39	763	12.4	1035	11.0	18	23	1	1	4	0.06	26	0.34	163	2.66	61,210
40	657	9.6	1165	11.1	32	49	—	2	5	0.07	48	0.70	186	2.73	66,350
41	590	10.1	1044	18.9	22	36	—	1	3	0.05	39	0.70	161	2.88	55,710
42	724	13.3	1116	20.5	25	35	1	1	3	0.05	23	0.42	189	3.47	54,500
43	775	14.3	1073	20.4	24	32	—	3	1	0.01	33	0.63	169	3.22	52,500
44	924	17.1	1037	19.2	40	44	—	2	10	0.18	23	0.42	177	3.27	54,080
45	811	13.8	1173	20.0	31	39	—	1	2	0.03	32	0.54	204	3.48	58,620
46	1059	16.3	1223	18.8	50	48	—	—	11	0.17	22	0.34	196	3.02	64,860
47	1003	15.0	1251	18.7	31	32	—	—	4	0.04	26	0.38	200	3.00	66,750
48	861	12.8	1103	16.3	20	24	—	—	—	—	23	0.34	183	2.71	67,520
49	818	12.0	1209	10.0	16	20	—	1	2	0.03	18	0.26	213	3.10	67,940

* Per 1,000 Population. ** Per 1,000 Live Births. † Per 1,000 Total (Live & Still) Births.
 Death Rates for 1941-1948 are unadjusted and cannot be compared with previous years.

TABLE II

**BIRTH RATES, CIVILIAN DEATH RATES, ANALYSIS OF MORTALITY,
MATERNAL MORTALITY, AND CASE RATES FOR CERTAIN
INFECTIOUS DISEASES IN THE YEAR 1949**

(Provisional figures based on Quarterly Returns).

	England and Wales	126 County Boroughs and Great Towns, including London	148 Smaller Towns (Resident Populations 25,000 to 50,000 1931 Census)	London Adminis- trative County	Worthing
Rates per 1,000 Civilian Population.					
Births:					
Live	16.7*	18.7	18.0	18.5	11.7
Still	0.39*	0.47	0.40	0.37	0.29
Deaths:					
All causes ..	11.7*	12.5	11.6	12.2	10.0
Typhoid and Para-Typhoid Fevers	0.00	0.00	0.00	0.00	—
Smallpox	0.00	0.00	—	—	—
Pneumonia	0.51	0.56	0.49	0.59	0.52
Tuberculosis ..	0.45	0.52	0.42	0.52	0.26
Whooping Cough	0.01	0.02	0.01	0.01	—
Diphtheria	0.00	0.00	0.00	0.00	—
Influenza	0.15	0.15	0.14	0.11	0.16
Acute Poliomyelitis & Polioencephalitis	0.01	0.02	0.02	0.01	0.01
Notifications: (corrected):					
Typhoid Fever ..	0.01	0.01	0.01	0.01	—
Paratyphoid Fever	0.01	0.02	0.01	0.01	—
Cerebro Spinal Fever	0.02	0.03	0.02	0.02	—
Scarlet Fever ..	1.63	1.72	1.83	1.46	0.54
Whooping Cough	2.39	2.44	2.39	1.70	1.84
Diphtheria	0.04	0.05	0.04	0.07	—
Erysipelas	0.19	0.20	0.19	0.17	0.12
Smallpox	0.00	0.00	0.00	0.00	—
Measles	8.95	8.91	9.18	8.54	4.26
Pneumonia	0.80	0.91	0.65	0.55	0.25
Acute Poliomyelitis ..	0.13	0.13	0.12	0.18	0.10
Acute Polioencephalitis	0.01	0.01	0.02	0.01	—
Food Poisoning	0.14	0.16	0.14	0.19	0.01
Rates per 1,000 Live Births.					
Deaths:					
All causes under 1 year of age ..	32†	37	30	29	20
Diarrhoea and Enteritis under 2 years of age ..	3.0	3.8	2.4	1.7	2.5
Rates per 1,000 Total Births (i.e., Live and Still).					
Maternal Mortality:					
Puerperal Infections	0.11	} Not Available	}	}	—
Others	0.87				1.22
Total	0.98				1.22
Notifications:					
Puerperal Fever and Pyrexia ..	6.31	8.14	5.30	6.82	8.55

* Rates per 1,000 total Population.

† Per 1,000 Related Live Births.

TABLE III

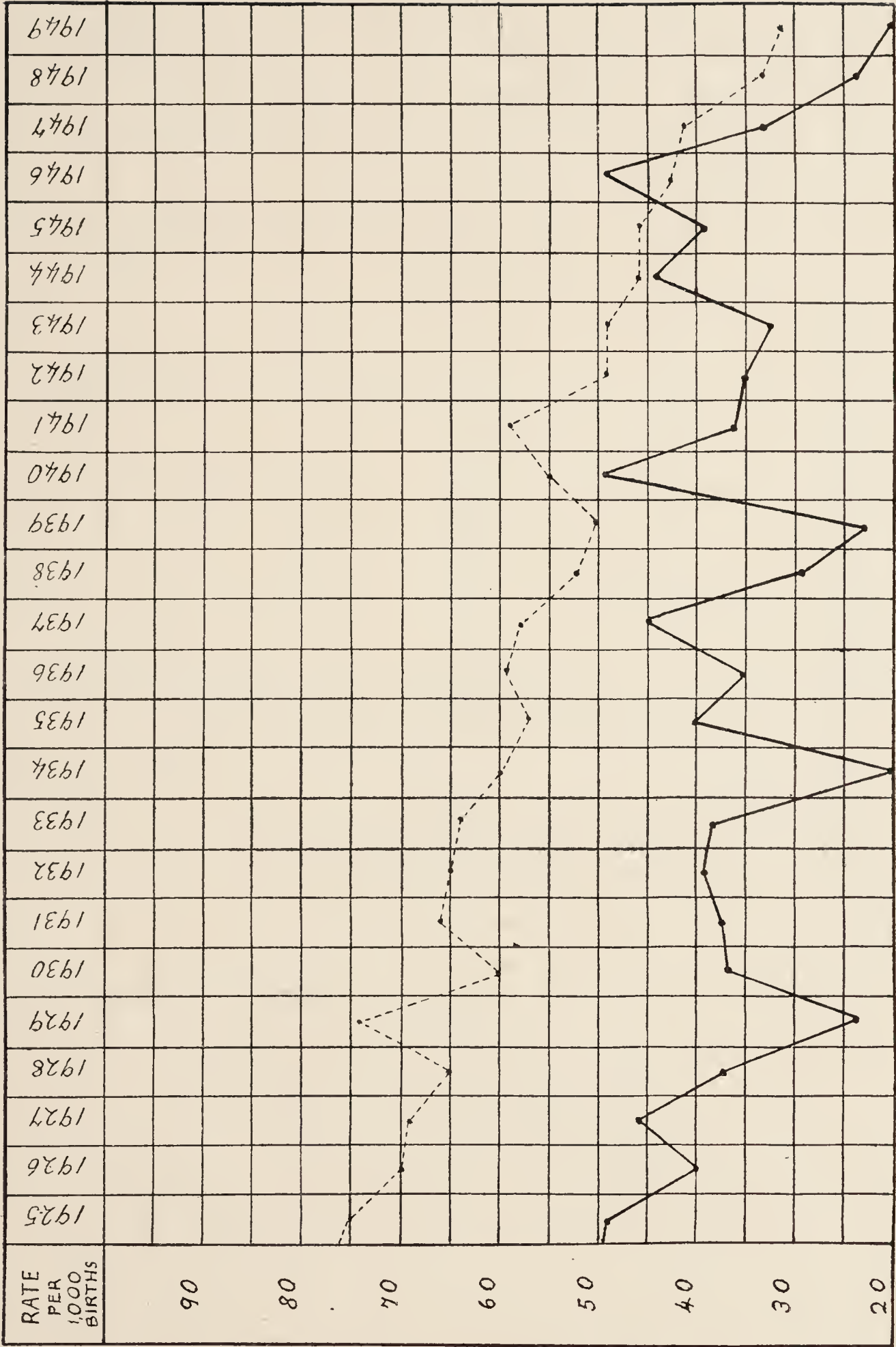
BIRTHS

The following table shows the number of births, and birth rate of Worthing, for the last 40 years.

			Total Births	Males	Females	Birth Rate
1909	..	..	518	260	258	19.0
1910	..	..	548	285	263	19.7
1911	..	..	532	277	255	17.4
1912	..	..	486	246	240	15.5
1913	..	..	504	251	253	15.6
1914	..	..	483	233	250	14.6
1915	..	..	457	231	226	14.2
1916	..	..	468	225	243	15.5
1917	..	..	359	193	166	11.9
1918	..	..	419	219	200	12.9
1919	..	...	376	179	197	12.1
1920	..	..	583	281	302	18.5
1921	..	..	487	265	222	15.5
1922	..	..	404	221	183	12.8
1923	..	..	401	214	187	12.8
1924	..	..	426	249	177	13.3
1925	..	..	442	223	219	13.4
1926	..	..	423	218	205	12.1
1927	..	..	432	223	209	11.9
1928	..	..	462	223	239	12.2
1929	..	..	494	242	252	11.9
1930	..	..	534	278	256	12.6
1931	..	..	553	299	254	12.5
1932	..	..	513	256	257	11.0
1933	..	..	514	255	259	10.6
1934	..	..	615	292	323	11.9
1935	..	..	621	296	325	11.5
1936	..	..	687	340	347	12.4
1937	..	..	729	378	351	12.4
1938	..	..	712	347	365	10.8
1939	..	..	763	400	363	12.4
1940	..	..	657	362	295	9.6
1941	..	..	590	305	285	10.1
1942	..	..	724	346	378	13.3
1943	..	..	775	417	358	14.3
1944	..	..	924	491	433	17.1
1945	..	..	811	427	384	13.8
1946	..	..	1059	536	523	16.3
1947	..	..	1003	527	476	15.0
1948	..	..	861	453	408	12.8
1949	..	..	818	444	374	12.0

The birth rate for England and Wales for 1949 was 17.1 per 1,000.

CHART SHOWING WORTHING INFANTILE MORTALITY RATE SINCE 1925.



(Dotted line represents Rate for England and Wales).

DEATHS.

The total number of deaths assigned to Worthing after adjusting inward and outward transfers was 1209, 529 males and 680 females, giving a crude death rate of 17.8 per 1,000 population.

The "Area Comparability Factor" which the Registrar-General formerly issued for adjusting the local death rate so that different places may be compared on an equitable basis, has been reintroduced, and the adjusted death rate for Worthing for the year 1949 is 10.0.

			Crude Death Rate	Adjusted Death Rate
1939	..	..	15.9	11.0
1940	..	..	17.1	11.1
1941	..	..	18.9	(no comparability factor issued).
1942	..	..	20.5	„
1943	..	..	20.4	„
1944	..	..	19.2	„
1945	..	..	20.0	„
1946	..	..	18.8	„
1947	..	..	18.7	„
1948	..	..	16.3	„
1949	..	..	17.8	10.0

The death rate for England and Wales was 11.7.

TABLE IV
CAUSES OF DEATH—1949.

All Causes	Males 529	Females 680
Typhoid and paratyphoid fevers	—	—
Cerebro-spinal fever	—	—
Scarlet Fever	—	—
Whooping Cough	—	—
Diphtheria	—	—
Tuberculosis of respiratory system	10	7
Other forms of tuberculosis	—	1
Syphilitic diseases	3	1
Influenza	7	4
Measles	—	—
Acute polio-myelitis and polio-encephalitis	1	—
Acute infantile encephalitis	1	—
Cancer	95	118
Diabetes	1	5
Intra-cranial vascular lesions	61	103
Heart Diseases	197	239
Other diseases of the circulatory system	15	29
Bronchitis	29	24
Pneumonia	14	21
Other respiratory diseases	9	7
Ulcer of stomach or duodenum	7	6
Diarrhoea under 2 years	—	2
Appendicitis	1	2
Other digestive diseases	7	11
Nephritis	13	17
Puerperal and post-abortive sepsis	—	—
Other maternal causes	—	1
Premature birth	4	—
Congenital malformation, birth injury, infantile diseases	5	2
Suicide	6	6
Road traffic accidents	2	—
Other violent causes	8	19
All other causes	33	55

The principal causes of death during the year were:—

Heart diseases	436
Cancer	213
Intra-cranial vascular lesions	164
Bronchitis and other respiratory diseases	69

DEATHS, AGE GROUPS—1949.

Age.	Deaths 1209
Under 1 year	16
1 to 4 years	3
5 to 24 „	8
25 to 49 „	42
50 to 59 „	83
60 to 69 „	229
70 to 79 „	448
80 to 89 „	315
90 years and over	65

This analysis shows that 68.5 per cent of the deaths were of persons aged 70 years of age and upwards.

The number of deaths occurring in the four quarters of the year was as follows:—

	Deaths	Death rate per 1,000	Rate for England & Wales ¹
First Quarter.. ..	390	12.9	14.9
Second Quarter	280	9.2	11.0
Third Quarter	239	8.7	9.2
Fourth Quarter	300	9.9	11.6
	1209	10.0	11.7

TABLE V.
BIRTH RATES, DEATH RATES,
AND INFANTILE MORTALITY RATES, 1930—1949.

Years	No. of births	Birth rate per 1,000 of the population	No. of deaths	Death rate per 1,000 of the population	Infantile Mortality rate per 1,000 births
1930	534	12.6	640	10.7	36
1931	553	12.5	690	11.0	37
1932	513	11.0	781	11.9	39
1933	514	10.6	715	10.4	38
1934	615	11.9	756	10.1	20
1935	621	11.5	744	9.5	40
1936	687	12.4	870	10.8	35
1937	729	12.4	916	10.8	45
1938	712	10.8	917	10.7	29
1939	763	12.4	1035	11.0	23
1940	657	9.6	1165	11.1	49
1941	590	10.1	1044	18.9	36
1942	724	13.3	1116	20.5	35
1943	775	14.3	1073	20.4	32
1944	924	17.1	1037	19.2	44
1945	811	13.8	1173	20.0	39
1946	1059	16.3	1223	18.8	48
1947	1003	15.0	1251	18.7	32
1948	861	12.8	1103	16.3	24
1949	818	12.0	1209	10.0	20

Death rates for 1941—1948 are unadjusted and cannot be compared with previous years.

It will be noted from this table that the number of deaths has always exceeded the number of births during the last 20 years. Although the actual population of the Borough has continued to increase, there has been no “natural increase of the population” (*i.e.* excess of births over deaths) since the year 1921.

MATERNAL MORTALITY.

There was one death during the year.

TABLE VI.
INFANTILE MORTALITY

The number of deaths under one year of age was 16 (13 males and 3 females), giving an infant mortality rate of 20 per 1,000 live births. The corresponding rate for England and Wales for the year under review was 32.

Year	No. of Infant Deaths	Proportion per 1,000 live births	Percentage of Total Deaths at all ages	Infant Mortality Rate in England and Wales
1925	21	48	4.6	75
1926	17	40	3.2	70
1927	20	46	3.5	69
1928	17	37	3.1	65
1929	12	24	1.7	74
1930	18	36	2.8	60
1931	20	37	2.9	66
1932	20	39	2.5	65
1933	18	38	2.5	64
1934	12	20	1.6	59
1935	25	40	3.4	57
1936	23	35	2.6	59
1937	33	45	3.6	58
1938	20	29	2.2	53
1939	18	23	1.7	50
1940	32	49	2.7	55
1941	22	36	2.1	59
1942	25	35	2.2	49
1943	24	32	2.2	49
1944	40	44	3.8	46
1945	31	39	2.5	46
1946	50	48	4.2	43
1947	31	32	2.4	41
1948	20	24	1.8	34
1949	16	20	1.3	32

The causes of deaths of children under one year for the last 5 years are as follows:—

Cause of Infant Deaths	Deaths of infants under one year of age.				
	1945	1946	1947	1948	1949
Premature Births	8	17	8	7	4
Congenital Malformations	9	15	10	7	1
Pneumonia	8	7	4	5	1
Atelectasis	—	—	—	—	2
Asphyxia	—	—	—	—	3
Spina Bifida	—	—	—	—	—
Bronchitis	1	—	—	—	—
Gastro Enteritis	—	5	1	—	2
All other causes	5	6	8	1	3
TOTALS	31	50	31	20	16

TABLE VII.

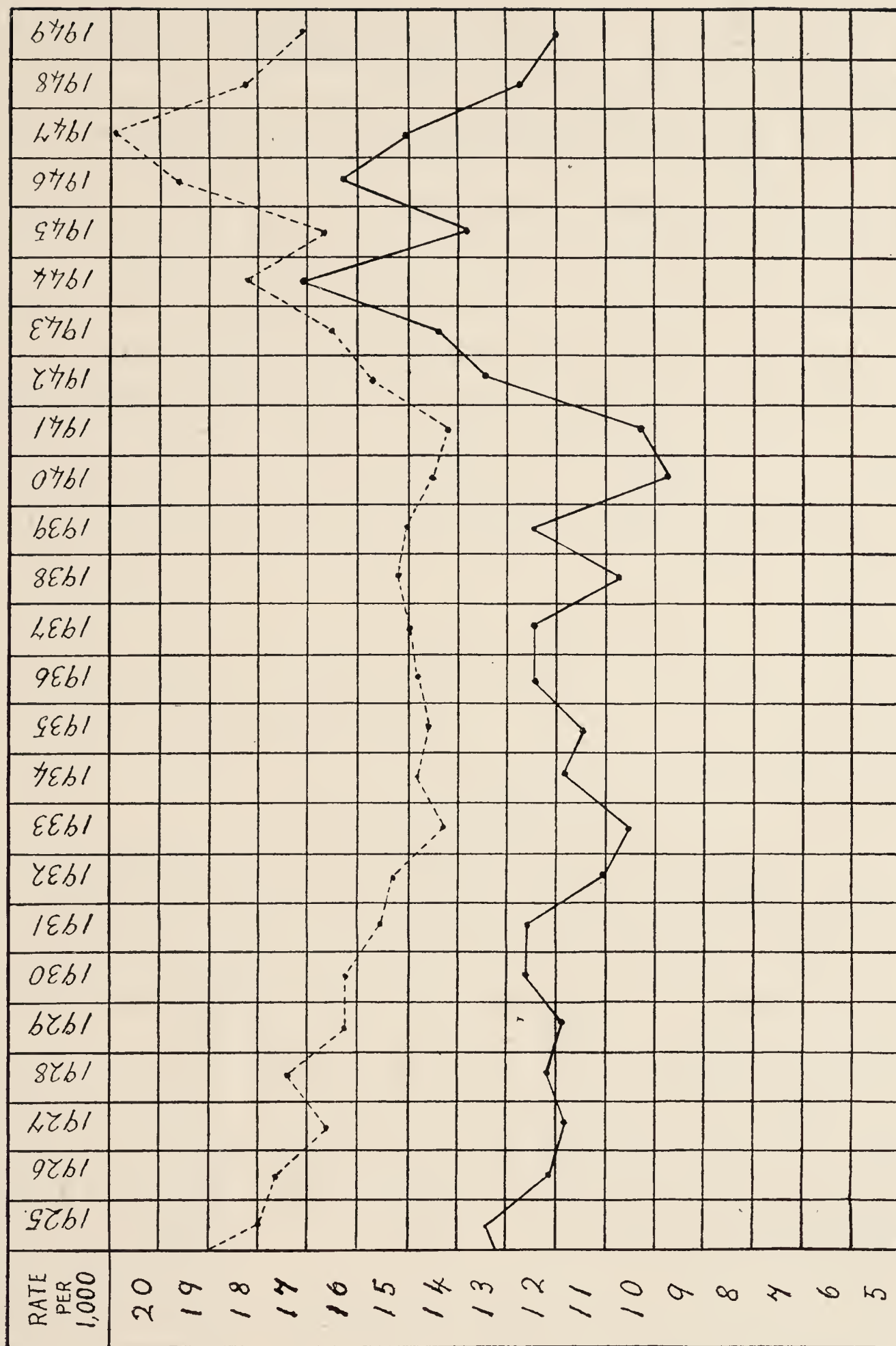
INFANTILE DEATHS 1949.

TABLE SHOWING CAUSES AND AGES AT DEATH.

Cause	Age in weeks				Total under 1 Month	Age in months					Total
	0-1	1-2	2-3	3-4		1-2	2-3	3-6	6-9	9-12	
Prematurity	4	—	—	—	4	—	—	—	—	—	—
Congenital Malformations ..	1	—	—	—	1	—	—	—	—	—	—
Pneumonia	—	—	—	—	—	—	—	—	1	—	1
Atelectasis	2	—	—	—	2	—	—	—	—	—	—
Asphyxia	1	—	—	—	1	—	—	2	—	—	2
Gastro-enteritis	—	—	—	—	—	—	—	1	1	—	2
Marasmus	—	—	—	—	—	—	—	1	—	—	1
General Peritonitis	1	—	—	—	1	—	—	—	—	—	—
Immaturity	1	—	—	—	1	—	—	—	—	—	—

The infantile mortality rate in a town of the size of Worthing with a total number of births of not more than 800—1,000 is bound to be subject to wide fluctuations, but it would appear that at present an infantile mortality rate in the neighbourhood of 20 per 1,000 births is almost an irreducible minimum.

CHART SHOWING WORTHING BIRTH RATE SINCE 1925.



(Dotted line represents Rate for England and Wales).

WATER SUPPLIES.

The water supply undertaking is owned and managed by the Borough Council.

The following information regarding the water supply has been supplied by Mr. H. A. Leader, Assoc. M.Inst.C.E., Assoc.M.Inst.W.E., Borough Water Engineer.

1. The water supply of the statutory area has been very satisfactory in both quality and quantity throughout the past year.
2. Bacteriological examinations are made once a fortnight of both the raw and chlorinated water, whilst chemical examinations of the raw water are made once a month.
3. The water has no plumbo-solvent action.
4. No contamination of supplies has been reported.
5. The population supplied during the year ended December 1949 was 72,000, all supplies being direct to the houses and no standpipes being used.

In addition, water is supplied in bulk to the Rural District Council, and is re-distributed by this Authority to a population of 12,000.

THE CLINICAL RESEARCH ASSOCIATION LIMITED.

Watergate House, York Buildings,
London, W.C.2.

Laboratory Report No. 22116

Chemical Water Report.

The sample of water marked Winding Shaft, Broadwater Pumping Station, received here on 27.4.49, has been chemically examined and I have been instructed to forward the following report:—

ANALYSIS (B)	Parts per 100,000	Grains per gallon.
Total solids (dried at 180°C)	33.0	23.1
Combined chlorine (Cl)	2.5	1.8
equivalent to Sodium Chloride (NaCl)	4.1	2.9
Nitric nitrogen (Nitrates)	0.58	0.41
Nitrous nitrogen (Nitrites)	Nil	Nil
Ammoniacal nitrogen	Nil	Nil
Albuminoid nitrogen	0.0024	0.0017
Oxygen absorbed in 4 hours at 27°C ..	0.002	0.001
Lead or Copper	Nil	Nil
Temporary hardness (equivalent to CaCO_3) ..	19.8	13.9
Permanent hardness (,, ,,)..	4.0	2.8
Total hardness (,, ,,)..	23.8	16.7

The Hydrogen Ion Concentration is found to be pH 7.3.

The above results show no evidence of pollution and the water is safe for drinking purposes.

R. S. RALPH, M.R.C.S., D.P.H.
Laboratory Director.

THE CLINICAL RESEARCH ASSOCIATION LIMITED.

Watergate House, York Buildings,
London, W.C.2.

Laboratory Report No. 23960.

Chemical Water Report.

The sample of water marked 48" Bore Patching received here on 11.10.49, has been chemically examined, and I have been instructed to forward the following report:—

ANALYSIS (B)	Parts per 100,000	Grains per gallon
Total solids (dried at 180°C)	33.0	23.1
Combined chlorine (Cl)	2.2	1.5
equivalent to Sodium Chloride (Na Cl) ..	3.6	2.5
Nitric nitrogen (Nitrates)	0.54	0.38
Nitrous nitrogen (Nitrites)	Nil	Nil
Ammoniacal nitrogen	Nil	Nil
Albuminoid nitrogen	0.0006	0.0004
Oxygen absorbed in 4 hours at 27°C. ..	0.002	0.001
Lead or Copper	Nil	Nil
Temporary hardness (equivalent to CaCO ₃) ..	21.0	14.7
Permanent hardness (,, ,,) ..	4.0	2.8
Total hardness (,, ,,) ..	25.0	17.5

The Hydrogen Ion Concentration is found to be pH 7.3.

The above results show this water to be of good quality and quite safe for drinking purposes.

R. S. RALPH, M.R.C.S., D.P.H.
Laboratory Director.

WORTHING CORPORATION WATER DEPARTMENT

Bacteriological Water Analysis.

Report No. W.174. On Sample marked W/S Broadwater.

Received 26.4.49.

Average number of organisms producing visible colonies on agar plates at 20°—22° C. for			
3 days	..	..	0 per millilitre
At 37° C. for 2 days	..	..	1 per millilitre
Faecal B. coli .. ..	..	..	} Absent in 100 c.c
Probable number of coliform bacilli present..	..	..
Streptococci .. ..	..	..
Cl. welchii (spores) ...	..	..
Hydrogen Ion concentration	..	..	7.4 pH
Remarks and Conclusion:	..	Satisfactory.	

FRANK STANDISH,
Pathologist,
Worthing Hospital.

WORTHING CORPORATION WATER DEPARTMENT

Bacteriological Water Analysis.

Report No. W.239. On Sample marked 48" Patching.

Received 11.10.49.

Average number of organisms producing visible colonies on agar plates at 20°—22° C. for					
3 days	..	..	..		0 per millilitre
At 37° C. for 2 days	..	..	..		2 per millilitre
Faecal B. coli	..	..	..	}	Absent in 100 c.c
Probable number of coliform bacilli present..					
Streptococci	..	..	..
Cl. welchii (spores)	..	..	..
Hydrogen Ion concentration	..	..			7.4 pH
Remarks and Conclusion.	..		Satisfactory.		

FRANK STANDISH,
Pathologist,
Worthing Hospital.

SWIMMING BATHS.

These were regularly inspected by the Medical Officer of Health and the Sanitary Inspectors. Frequent examinations of the water were carried out and the results showed that a satisfactory standard of purity was maintained.

SANITARY INSPECTION OF THE AREA.

This is under the supervision of the Chief Sanitary Inspector, who has supplied me with the following report:—

GENERAL INSPECTIONS.

General inspections included the following:—

Houses	..	..	..	..	..	..	359
Factories	..	..	..	..	..	..	570
Bakehouses	..	..	..	..	..	..	130
Restaurant Kitchens	..	..	..	..	..	..	251
Workplaces	..	..	..	..	..	..	101
Cowsheds	..	..	..	..	..	..	35
Dairies	..	..	..	..	..	..	102
Ice Cream Premises	..	..	..	..	..	..	311
Food Shops	..	..	..	..	..	..	1,976
Schools	..	..	..	..	..	..	67
Drainage	..	..	..	..	..	..	451
Shops' Act	..	..	..	..	..	..	105
Revisits and miscellaneous	..	..	..	..	..	..	3,036

517 public health nuisances or contraventions were recorded and 462 were remedied before the end of the year.

SANITARY DEFECTS AND NUISANCES RECORDED INCLUDED THE FOLLOWING :—

Houses:

Roofs defective	..	..	..	..	..	58
Rainwater conductors defective	..	..	..	..	..	40
Chimney stacks and external walls defective	..	..	..	..	..	24
Verminous	..	..	..	..	..	17
Re-decorating required	..	..	..	..	..	48
Wall plaster defective	..	..	..	..	..	52
Wall dampness	..	..	..	..	..	41
Sinks, foul or worn	..	..	..	..	..	6
Cooking ranges, fireplaces defective	..	..	..	..	..	17
Window frames or cords defective	..	..	..	..	..	70
Floors, staircases defective	..	..	..	..	..	21

Drainage:

Requiring reconstruction	..	..	..	..	..	18
Defective condition	..	..	..	..	..	38
Choked	..	..	..	..	..	106
W.C.'s defective	..	..	..	..	..	46
Yard paving defective	..	..	..	..	..	18
Insanitary yards or land	..	..	..	..	..	23
Offensive accumulations	..	..	..	..	..	11
Vacant land insanitary	..	..	..	..	..	13
Animals improperly kept	..	..	..	..	..	6
Dilapidated refuse bins	..	..	..	..	..	35
Smoke nuisances	..	..	..	..	..	5

COMPLAINTS.

1,042 complaints were investigated and appropriate action was taken.

They are classified as follows:—

General housing defects	..	..	..	..	130
Dampness	..	..	..	..	69
Overcrowding	..	..	..	..	15
Dirty conditions	..	..	..	..	17
Vermin	..	..	..	..	25
Insects	..	..	..	..	45
Drainage defects	..	..	..	..	106
W.C.'s defective	..	..	..	..	26
Insanitary land, yards	..	..	..	..	54
Animals improperly kept	..	..	..	..	27
Offensive smells	..	..	..	..	37
Smoke nuisances	..	..	..	..	13
Refuse bins defective	..	..	..	..	29
Rats	..	..	..	..	310
Mice	..	..	..	..	107
Miscellaneous	..	..	..	..	32

HOUSING.

Shortage of new houses continues to be very acute and repair to existing houses very expensive.

Closing Orders. Two Closing Orders had to be made to prevent parts of buildings, which were very insanitary, from being occupied for dwelling purposes.

Consent to an improvement scheme in respect of two Cottages where Closing Orders existed was refused.

As in previous years it was not practicable to enforce the repair sections of the Housing Acts for various reasons. Where essential repairs were necessary, action was generally taken under the Public Health Act and a slightly lower standard of fitness accepted.

NOTICES SERVED TO REMEDY DEFECTS OR ABATE NUISANCES OR CONTRAVENTIONS.

	<i>Act</i>	<i>Informal</i>	<i>Statutory</i>
Public Health Act, 1936			
Section 92 (defects and nuisances)	189	—
„ 39 (drainage and appliances)	73	—
„ 44/45/46 (water closets)	12	9
„ 50 (cesspools)	1	1
„ 101 (smoke)	8	1
„ 259 (ditches)	2	1
„ (miscellaneous)	5	—
Worthing Corporation Act (refuse bins)	53	2
„ „ (vermin)	6	—
Housing Act, 1936	69	5
Food and Drugs Act, 1938.			
Section 13 (food preparing)	71	1
Rats and Mice (Destruction) Act, 1919	12	—
Factories Act, 1937	20	—
Shops Act, 1934.			
Section 10	3	—

Sewers serving 189 houses found to be choked were cleansed by the Corporation.

RAG FLOCK ACTS, 1911-1928.

Four samples of rag flock were taken and analysed for the presence of soluble chlorine in the form of chlorides. All conformed to the prescribed standard of cleanliness.

OFFENSIVE TRADES.

Number of registered premises 2.

FACTORIES ACTS, 1937 and 1948.

1. INSPECTIONS for purposes of provisions as to health (including inspections made by Sanitary Inspectors).

Premises	Number on Register	Number of Inspections	Written notices
(i) Factories in which Sections 1, 2, 3, 4, and 6 are to be enforced by Local Authorities	61	123	7
(ii) Factories not included in (i) in which Section 7 is enforced by the Local Authority	236	522	24
(iii) Other Premises in which Section 7 is enforced by the Local Authority (excluding out-workers' premises)	4	6	1
TOTAL	301	651	32

2. Cases in which DEFECTS were found.

Particulars	Number of cases in which defects were found			
	Found	Remedied	Referred	
			To H.M. Inspector	By H.M. Inspector
Want of cleanliness (S.1.)	3	3	—	—
Overcrowding (S.2)	1	1	—	—
Unreasonable temperature (S.3)	—	—	—	—
Inadequate ventilation (S.4)	—	—	—	—
Ineffective drainage of floors (S.6)	1	1	—	—
Sanitary Conveniences (S.7)				
(a) insufficient	4	3	—	3
(b) Unsuitable or defective	45	42	—	2
(c) Not separate for sexes	2	2	—	—
Other offences against the Act (not including offences relating to Outwork)	7	5	6	—
TOTAL	63	57	6	5

Fire Escape. Eight Certificates of Adequate Means of Escape in Case of Fire were granted. In several cases additional provision or alterations were first necessary to comply with requirements.

SHOPS ACT 1934.

Two Certificates of Exemption from the requirements of Section 10(2), which relate to the provision of suitable and sufficient sanitary accommodation, were granted pursuant with the Act.

CAMPING.

Four applications for consent to erect caravans were considered. Two were refused and two were granted for a prescribed period.

RODENT CONTROL.

No. of complaints received	417
No. of complaints verified: rats	216
mice	109
No. of visits by Rodent Operators	2,274
No. of premises cleared	245
Estimated No. of rats destroyed (excluding gassing) ..	1,355

The number of 417 complaints was the highest ever recorded, but no infestation was discovered in 92 cases. Mice infestation complaints have increased 100% during recent years.

There was no serious infestation in the Borough during the year.

The majority of rat infestations were in the western and northern highly residential parts of the Borough. The centre of the town was comparatively free.

The keeping of poultry in back gardens has greatly increased the rat menace; poultry was being kept at 69 premises found to be rat infested.

A free service is given in respect of private houses.

Sewer Treatment.

No. of treatments (7th and 8th)	2
No. of chambers baited	1,027
No. found to be infested	239

Of 16 areas, 8 were rat infested on the last treatment as compared with 15 areas originally. Results vary considerably from treatment to treatment and provide curious findings, but it is reasonable to assume that there is little or no link between the sewer and overland infestations in this Borough.

DISINFECTION AND DISINFESTATION.

885 articles fumigated by steam disinfection included the following:

Blankets and Rugs	155
Sheets, Eiderdowns, etc.	65
Mattresses and Feather Beds	174
Pillows, bolsters, cushions	373
Miscellaneous articles	118
Number of rooms disinfected	115
Number of rooms disinfested	105
Revenue received:—	
for disinfection	£38. 0. 10.
for disinfestation	£31. 14. 3.

MEAT AND FOOD EXAMINATION.

Slaughtering is carried on at one Regional Slaughterhouse. Three other private slaughterhouses remained closed. An application for one of these slaughterhouses to be re-licensed was refused.

9 persons were licensed to slaughter animals under the Slaughter of Animals Act, 1933.

All animals were slaughtered with the aid of mechanically operated humane instruments.

The carcase of every animal slaughtered was examined; this entailed a vast amount of late night and Sunday work. 421 attendances were made at the slaughterhouse.

13,400 animals, *i.e.* 3,777 beasts, 2,445 calves, 6,941 sheep and 237 pigs were slaughtered and examined.

31 tons of meat were found to be diseased and unfit for food. This was salvaged for animal feeding, fat rendering or fertilizers. Meat found to be diseased included:—

Entire Carcases:

Beasts	..	..	..	..	..	51
Calves	..	..	..	..	..	6
Sheep	..	..	..	..	..	10
Pigs	..	..	..	..	..	3

Offals:

			<i>Beasts</i>	<i>Calves</i>	<i>Sheep</i>	<i>Pigs</i>
Heads and Tongues	..	..	242	6	15	4
Livers	..	..	927	5	462	2

Carcases Inspected and Condemned.

		Cattle excl. Cows	Cows	Calves	Sheep and Lambs	Pigs
Number killed	.. ..	2,483	1,294	2,445	6,941	237
Number inspected	.. ..	2,483	1,294	2,445	6,941	237
All diseases except Tuberculosis.						
Whole carcases condemned	..	3	7	2	10	2
Carcases of which some part or organ was condemned	..	1,014		5	496	—
Percentage of the number inspected affected with disease other than tuberculosis	..	27.1		0.28	8.81	0.80
Tuberculosis only.						
Whole carcases condemned	..	16	25	4	—	1
Carcases of which some part or organ was condemned	..	259	286	1	—	6
Percentage of the number inspected affected with tuberculosis	.. ..	11.07	24.0	0.20	—	2.9

Requests from local food tradesmen to examine foods of a doubtful character are received almost daily.

The undermentioned were found to be diseased or unsound and were condemned as being unfit for human food.

Tinned and other foods—1949.

					<i>No. of tins etc.</i>	<i>lbs.</i>
Milk	..	..	..	..	1,165	
Milk Powder	..	..	..	..		17
Vegetables	..	..	..	..	536	
Jam	..	..	..	..	216	
Fruit	..	..	..	..	241	
Soup	..	..	..	..	179	
Tomatoes	..	..	..	..	54	
Tinned Fish	..	..	..	..	495	
Fish paste	..	..	..	..	379	
Condiments	..	..	..	..	118	
Cereals	..	..	..	..	41	
Pudding Mixtures	..	..	..	..	1,476	
Sweets Confectionery:						
Chocolate Bars	..	..	..	..	22	
Crunchies	..	..	..	..	10	
Chocolate Wafers	..	..	..	..	12	
Boiled Sweets	..	..	..	..		44
Mixed Sweets	..	..	..	..		270
Flour	..	..	..	..		21
Custard Powder	..	..	..	..	28	
Curry Powder	..	..	..	..		6
Onion Powder	..	..	..	..	81	
Mincemeat	..	..	..	..	6	
Wet Fish	..	..	..	..		4,494
Dried Egg and Liquid Egg	..	..	..	..	2	
Christmas Puddings	..	..	..	..		37
Coffee	..	..	..	..	2	
Tea	..	..	..	..		61
Sugar	..	..	..	..		31
Poultry, Game, etc.						
Poultry	..	..	..	..	111	
Guinea Fowls	..	..	..	..	11	
Rabbits	..	..	..	..	60	
Corned Beef	..	..	..	..		532
Sausages	..	..	..	..	36	
Canned Meat	..	..	..	..	155	
Sausage Meat	..	..	..	..		70
Fats.						
Butter	..	..	..	..		2
Margarine	..	..	..	..		1
Cheese	..	..	..	..		5
Bacon	..	..	..	..		23
Home Killed Meat.	Beef	..	..	..		21
	Pork	..	..	..		193
Imported Meat.	Beef	..	..	..		449
	Mutton	..	..	..		136

MILK.

255 samples were taken and the following is a synopsis of the results.

Examination for Bacterial Cleanliness.

Designation	No. taken	Below Standard.			Unsatisfactory
		Methy-lene Blue	Bac. coli.	Phos-phatase	
Tuberculin Tested ..	51	11	10	—	17 or 33 %
Tuberculin Tested (Pasteurised)	14	—	—	—	—
Pasteurised	78	12	—	—	12 or 15 %
Heat Treated	62	16	12	8	18 or 29 %

Examination for Tubercle Bacilli. The milk supplies produced at five farms were examined for the presence of tubercle bacilli and all proved to be negative.

Examination to detect Adulteration or Abstraction. 50 samples were taken, details of which are given in the Foods and Drugs section on page 27.

Graded Milk. New legislation came into operation on October 1st. One of the chief changes was the elimination of the Bacillus Coli test.

The following licences were granted under the appropriate Regulations:—

To retail Tuberculin Tested or Tuberculin Tested Pasteurised Milk	22
To Pasteurise and sell	3
To retail Pasteurised Milk	3
To retail Sterilized Milk	4
Supplementary, Sterilized Milk	1

One application for licence to pasteurise was refused.

Milk Consumption. The average amount of milk consumed by the resident population was approximately 6,650 gallons daily, or 0.8 pint per head per day, and the amount of Tuberculin Tested milk consumed daily was approximately 250 gallons.

Milk in Schools. The number of $\frac{1}{3}$ -pints supplied to schools on each school day was approximately 7,500.

ICE CREAM.

16 premises are registered for the manufacture of ice cream and 165 for storage and sale.

80 samples were taken and analysed for bacterial cleanliness and 12 to ascertain the fat content.

There has been a marked improvement during the past two years in the cleanliness of ice cream manufactured in the Borough, as will be seen from the following figures:—

				1949	1947
Grade I	..	..	..	55 %	24 %
Grade II	..	..	..	20 %	14 %
*Grade III	..	..	..	10 %	13 %
*Grade IV	..	.	..	15 %	47 %

*Unsatisfactory.

Bacterial Counts: The highest was 53,000 and the lowest 150 per 1 ml. 15 samples had a count of less than 1,000 per 1 ml and only 4 exceeded a count of 10,000. These figures are exceedingly good.

12 samples were analysed as regards quality or fat content and these varied between 13.0 % and 4.0 % fat.

CLEAN FOOD.

Special attention was again given to this matter when inspecting kitchens, canteens and food shops. Hot water heaters were installed over sinks or hand basins at a large number of premises where an adequate supply of hot water was not available for washing up or hand washing.

FOOD AND DRUGS ACT, 1938—SECTION 3.

DEFENCE (SALE OF FOOD) REGULATIONS, 1943.

115 samples of foods or drugs were taken for analysis by the Public Analyst:—

Description.	No. Analysed.	Not Satisfactory.
Milk	50	17 (a)
Milk Powder	5	
Condensed Milk	1	
Vegetarian Foods	7	
Baking Powder	3	
Bicarbonate of Soda	3	
Sausage Meat	10	2 (b)
Meat Pudding.. .. .	1	
Veal and Ham Loaf	1	
Fish Paste	2	
Malt Vinegar	1	
Chocolate Spread	3	
Pure Cocoa	1	
Coffee—pure	1	
Coffee Extract	2	
Cake.. .. .	1	
Fruit Juice	3	1 (c)
Ice Cream	12	
Chewing Gum	1	
Tea	1	
Flavouring Product	1	
Marmalade	1	
Salad Cream	3	
Saccharine	1	

(a) 3 samples were deficient in milk fat and solids not fat and 14 were deficient in solids not fat (including 4 “appeal to the cow” samples). There was no adulteration. The samples were genuine milk of low quality. 2 “Channel Islands” samples also failed to reach the prescribed fat standard.

(b) 1 sample was 28% deficient in “meat content” and the manufacturer was prosecuted and fined £25 and £1.1.0 costs. Another sample contained a preservative which was not declared and the manufacturer was cautioned.

(c) Contained slight excess preservative.

FOOD POISONING.

The following information is included in accordance with the instructions of the Ministry of Health.

(a)	Total number of outbreaks	1
(b)	Number of cases	1
(c)	Number of deaths	Nil
(d)	Organisms or other agents responsible	Salmonella Typhi-murium
(e)	Food involved	Duck egg

The patient, a woman aged 40, was admitted to hospital suffering from food poisoning and on investigation was found to have Salm. typhi-murium in her faeces. A duck egg was suspected as the cause of the illness. The patient remained in hospital for a month, but was still excreting Salm. typhi-murium on discharge. She was kept under supervision and advice given to avoid the spread of infection both at her home and place of employment. Further specimens were examined and the condition eventually cleared up, a series of negative reports being received.

CLEAN FOOD CAMPAIGNS.

Lectures and discussions have been given by the Medical Officer and the Chief Sanitary Inspector to a number of local organisations. Food traders' organisations have been approached and lectures given to food handlers. The staffs at the School Canteens have also been given talks.

The exhibition stand of the Central Council for Health Education fitted with photographs and other exhibits dealing with Food and Drink Infections, was displayed at the Worthing Central Food Office during May.

PREVALENCE OF, AND CONTROL OVER, INFECTIOUS AND OTHER DISEASES.

Notifiable Infectious Diseases.

The following are the infectious diseases which are now notifiable to the Medical Officer of Health:—

Scarlet fever
Whooping cough
Diphtheria
Measles
Acute pneumonia (primary or influenzal)
Meningococcal infection
Acute poliomyelitis—
 paralytic
 non-paralytic
Acute encephalitis—
 infective
 post-infectious
Dysentery
Ophthalmia neonatorum
Puerperal pyrexia
Smallpox
Typhoid and Para-typhoid fevers
Food poisoning
Erysipelas
Malaria
Cholera
Plague
Typhus fever
Relapsing fever
Tuberculosis (all forms).

The following table shows the infectious disease notifications received during the year together with any corrections that may have been made subsequently either by the patient's doctor or the Medical Superintendent of the Isolation Hospital:—

	Scarlet Fever		Whooping Cough		Ac. Poliomyelitis		Measles	
	M	F	M	F	M	F	M	F
Numbers originally notified ..	17	20	58	68	2	6	154	136
Final numbers after correction:								
Under 1 year	—	—	6	3	—	—	2	3
1-2 years	1	1	23	17	—	—	34	20
3-4 „	3	3	8	16	1	—	32	29
5-9 „	11	10	20	20	—	3	79	74
10-14 „	1	3	1	3	—	1	6	4
15-24 „	1	1	—	1	1	—	1	3
25 and over	—	2	—	7	—	1	—	3
TOTAL	17	20	58	67	2	5	154	136
Cases removed to Hospital ..	16	14	3	3	2	6	6	3

	Ac. Pneumonia		Dysentery		Erysipelas		Food Poisoning	
	M	F	M	F	M	F	M	F
Numbers originally notified ..	7	10	1	—	2	6	2	2
Final numbers after correction								
Under 5 years	2	1	—	—	—	—	—	—
5-14 years	1	1	—	—	—	—	—	—
15-44 „	2	1	1	—	1	—	—	1
45-64 „	—	1	—	—	1	3	—	—
65 and over	2	6	—	—	—	3	—	—
TOTAL	7	10	1	—	2	6	—	1
Cases removed to Hospital ..	2	2	—	—	1	1	—	1

Puerperal Pyrexia: Originally notified 7. Final number after correction 7.

DIPHTHERIA.

No cases were notified during the year. During the last 30 years the following cases have been notified:—

Year	No. of cases	Deaths
1920	45	1
1921	25	1
1922	29	—
1923	16	1
1924	7	—
1925	9	1
1926	22	2
1927	83	4
1928	54	2
1929	20	1
1930	12	3
1931	31	2
1932	36	4
1933	33	1
1934	31	—
1935	16	—
1936	20	—
1937	18	—
1938	23	1
1939	24	1
1940	3	—
1941	5	1
1942	—	—
1943	7	1
1944	3	2
1945	—	—
1946	3	1
1947	1	—
1948	—	—
1949	—	—

These figures reveal the success of the Diphtheria Immunisation scheme, which was commenced in Worthing in the autumn of 1939.

DIPHTHERIA IMMUNISATION AND VACCINATION AGAINST SMALL-POX.

The arrangements for both these forms of prophylaxis are given in my report as Medical Officer to the Worthing County Health Sub-Committee.

SCARLET FEVER.

Notifications were received in respect of 37 cases. There were no deaths from this disease. The incidence of this disease since 1920 is shown below:—

Year	No. of cases	Deaths
1920	79	—
1921	134	—
1922	50	—
1923	17	—
1924	38	—
1925	86	1
1926	73	1
1927	51	—
1928	28	—
1929	88	—
1930	52	—
1931	47	—
1932	214	3
1933	233	1
1934	322	—
1935	168	—
1936	130	—
1937	75	1
1938	55	1
1939	41	1
1940	42	—
1941	26	—
1942	26	1
1943	76	—
1944	274	—
1945	108	—
1946	35	—
1947	21	—
1948	43	—
1949	37	—

ADMISSION OF CASES TO ISOLATION HOSPITALS.

The following cases were admitted during the year :—

Swandean Infectious Diseases Hospital.

Scarlet fever	..	..	..	..	28
Streptococcal sore throat			..	..	4
Measles	..	..	..	..	8
Measles and broncho-pneumonia				..	2
Chicken pox	..	..	..	..	3
Mumps	..	..	..	..	4
Whooping cough		..	..	..	3
Whooping cough and broncho-pneumonia					4
Erysipelas	..	..	..	..	2
Acute poliomyelitis	..		..	..	7
Stomatitis	..	..	..	..	2
Impetigo	..	..	..	..	1
Acute bronchitis		..	..	..	1
Pleurisy with effusion	..		..	..	1
Vincent's angina	..		..	..	1
Observation cases	..		..	..	5
					<hr/> 76 <hr/>

Chichester Infectious Diseases Hospital.

Scarlet fever	3
---------------	----	----	----	----	---

Brighton General Hospital.

Food poisoning		1
----------------	----	----	----	--	---

TUBERCULOSIS.

72 cases were added to the Register during 1949:—

Pulmonary—Males	..	38	Non-pulmonary—Males	..	7
Females	..	25	Females	..	2
		—			—
		63			9
		—			—

191 cases were removed from the Register during the year.

Tuberculosis Cases on the Register at 31st December, 1949 :—

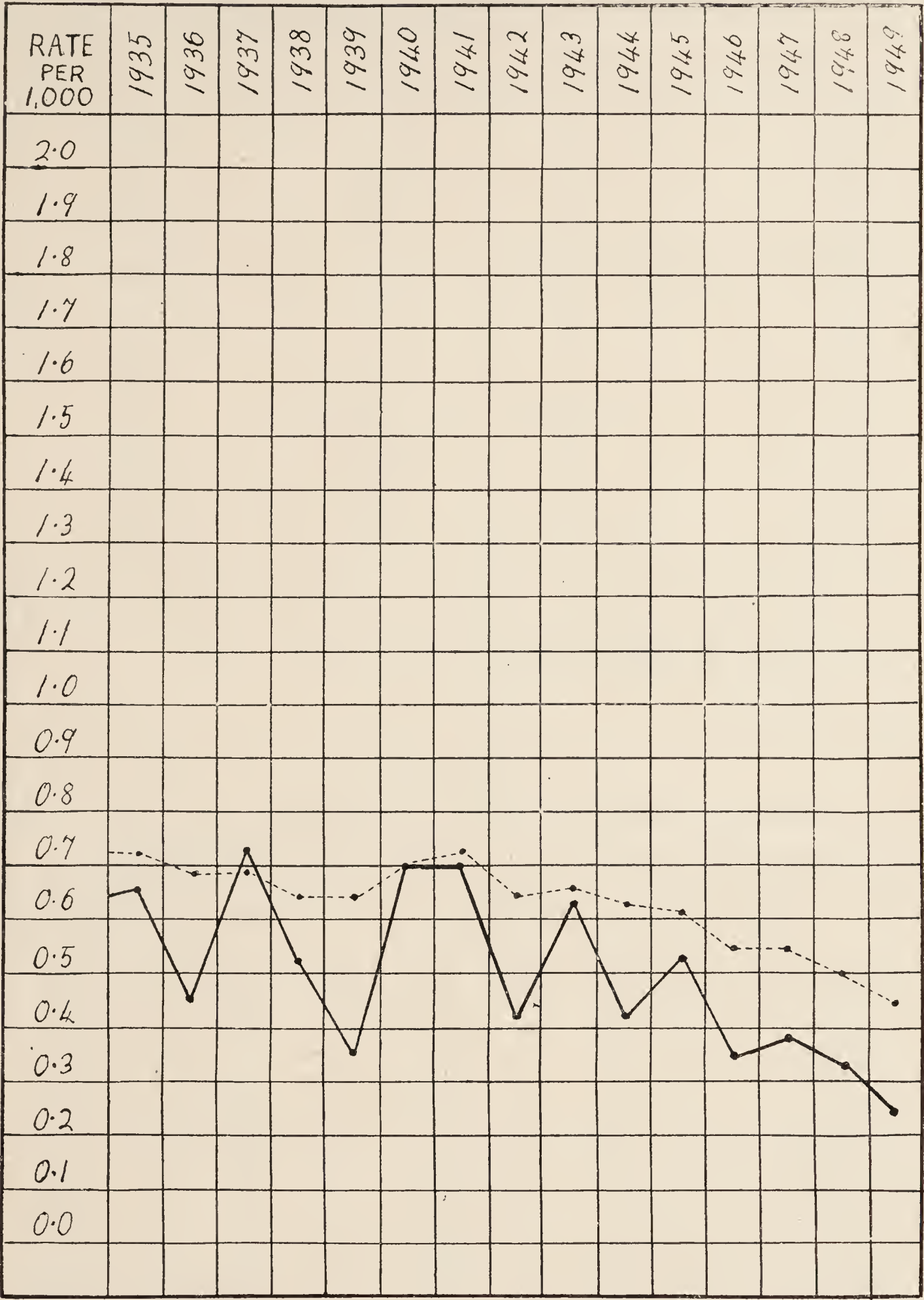
		Males	Females	Total
Pulmonary	..	193	191	384
Non-pulmonary	..	45	63	108
Totals	..	238	254	492

Table showing new cases in 1949 and mortality.

Age periods	* New cases				Deaths			
	Pulmonary		Non-pulmonary		Pulmonary		Non-pulmonary	
	M	F	M	F	M	F	M	F
Under 1 year	—	—	—	—	—	—
1—4 years	1	—	1	—	—	—
5—14	1	1	—	—	—	1
15—24	4	2	1	1	—	—
25—34	4	3	—	2	—	—
35—44	3	3	1	2	—	—
45—54	5	1	3	1	—	—
55—64	—	2	2	—	—	—
65 years and over	2	1	2	1	—	—
TOTALS	20	13	10	7	—	1

* This table excludes cases transferred from other areas.

CHART SHOWING WORTHING TUBERCULOSIS DEATH RATE SINCE 1935.



(Dotted line represents Rate for England and Wales).

The following table shows the mortality from tuberculosis (all forms) since 1935:—

Year	Deaths	Death Rate per 1,000 of the population	
		Worthing	England and Wales
1935	36	0.67	0.72
1936	25	0.45	0.69
1937	42	0.72	0.70
1938	31	0.52	0.64
1939	26	0.34	0.64
1940	48	0.70	0.70
1941	39	0.70	0.73
1942	23	0.42	0.66
1943	33	0.63	0.67
1944	23	0.42	0.63
1945	32	0.54	0.62
1946	22	0.34	0.55
1947	26	0.38	0.55
1948	23	0.34	0.51
1949	18	0.26	0.45

It has been not necessary to take action under the Public Health (Prevention of Tuberculosis) Regulations, 1925, or under Section 172 of the Public Health Act, 1936.

CANCER.

The total number of deaths in 1949 was 213. The mortality from this cause during the last 20 years is shown as follows:—

Year	Deaths		Total	Death rate per 1,000 of the population
	Males	Females		
1930 ..	35	69	104	2.46
1931 ..	41	60	101	2.28
1932 ..	38	63	101	2.17
1933 ..	42	62	104	2.14
1934 ..	60	73	133	2.58
1935 ..	53	72	125	2.32
1936 ..	54	99	153	2.75
1937 ..	51	87	138	2.35
1938 ..	64	87	151	2.56
1939 ..	57	106	163	2.66
1940 ..	82	104	186	2.73
1941 ..	69	92	161	2.88
1942 ..	76	113	189	3.47
1943 ..	79	90	169	3.22
1944 ..	68	109	177	3.27
1945 ..	80	124	204	3.48
1946 ..	76	120	196	3.02
1947 ..	84	116	200	3.00
1948 ..	80	103	183	2.71
1949 ..	95	118	213	3.10

THE NATIONAL ASSISTANCE ACT, 1948

Section 47. Removal to suitable premises of persons in need of care and attention.

No legal proceedings were necessary during the year. In the few cases where difficulties occurred, informal action was sufficient to cope with the situation.

Section 50. Burial of the Dead.

Under this Section of the Act it was necessary to arrange for the burial of seven persons where no suitable arrangements were being made.

CLEANSING OF PERSONS.

Total attendances at Clinic	27
No. of heads cleansed	5
No. of individual cases of Scabies treated during the year.	12

STAFF MEDICAL EXAMINATIONS.

Medical examinations are undertaken by the Department in connection with new appointments. During the year 63 such examinations were carried out, details of which are as follows:—

<i>Department</i>	<i>Males</i>	<i>Females</i>
Town Clerk's	1	2
Borough Engineer's	11	1
Medical Officer's	2	5
Borough Treasurer's	5	4
Borough Water Engineer's	3	—
Education	9	13
Entertainments and Publicity	—	1
Borough Librarian's	1	5
Total	32	31

Occasionally similar examinations are carried out at the request of other Local Authorities and during 1949 five such examinations were undertaken.

SECTION 2.

ANNUAL REPORT
of the
Meteorological Observations
for 1949.

METEOROLOGICAL OBSERVATIONS.

FOR THE YEAR 1949.

The Meteorological Station is in Beach House Park, which is 25.00 feet above Ordnance Datum. Here all the instruments, except the Fortin Standard Barometer and the Sunshine Recorder, are kept.

The shade thermometers, in a Stevenson screen, are:—self-recording maximum, self-recording minimum, dry bulb and wet bulb.

All thermometers are Fahrenheit and are verified at the National Physical Laboratory, Kew.

A self-recording minimum thermometer is used for registering the temperature on the grass.

Four earth thermometers are in use at various depths—1ft., 2ft., 4ft. and 6ft.

There is an official five-inch copper Rain Gauge Meteorological Office pattern, also a Dines Tilting Siphon Automatic Rain Recorder.

The Campbell-Stokes Sunshine Recorder is fixed on a platform at the top of Christ Church Tower, 111 feet above mean sea level and 84 feet above ground level.

All instruments at the local Meteorological Observatory are examined and tested annually by Officers of the Meteorological Office, Air Ministry, London.

A code report is sent by telegram each evening to the Meteorological Office, London, and the leading Newspapers are supplied with reports from that Office.

Weekly reports are sent to the local newspapers, and a full report monthly to the Meteorological Office, London, for publication in their journals. Rainfall statistics are supplied to the British Rainfall Organization.

This report contains statistics showing the means for the year of Barometric pressure, Air and Earth temperatures, Sunshine, Wind and Humidity, compared with the averages for a series of years.

The 35 years average period (1881-1915), used by the Meteorological Office, is known as the Normal.

Observations are taken every day throughout the year at 9 a.m. and 6 p.m.

ABSTRACT OF OBSERVATIONS FOR THE YEAR, 1949.

Total amount of bright sunshine: 2128.9 hours
Number of days with sunshine: 317
Rainfall: 23.90 inches.
Number of days on which 0.01 to 0.03 inch rain fell: 37
Number of days on which 0.04 inch rain, or more fell: 83
Highest barometric reading: 30.855 inches on January 30th.
Lowest reading: 28.594 inches on January 1st.
Highest recorded temperature in screen: 81° on July 24th.
Lowest recorded temperature in screen: 29° on February 3rd and 4th.
Mean temperature: 52.8°
Mean relative humidity: at 9 a.m. 82 %
Lowest temperature on the grass: 20° on March 20th.
Wettest day: October 20th, 1.34 inches.
Sunniest day: July 10th, 14.8 hours.
Number of days snow or sleet fell: 3
Number of days hail fell: 3
Number of thunderstorms: 5
Number of ground frosts: 57
Number of gales: 8
Number of days with fog (9 a.m.) 7.

BRIGHT SUNSHINE.

The duration of bright sunshine for the year was 2128.9 hours.

This amount is 47.6 per cent of the time during which the sun was above the horizon, giving a daily mean of 5.83 hours. The average yearly sunshine for the previous fifty years was 1828.3 hours. During this period the year with the highest record was 1899, when 2141.0 hours were recorded, whilst the year 1913 was the lowest with 1600.2 hours. The sunniest day was July 10th when 14.8 hours were recorded.

July, with 299.4 hours, was the sunniest month, and December with 71.4 hours, was the least sunny.

A sunless day is one on which less than 6 minutes of bright sunshine are recorded.

RAINFALL

The rainfall for the year 1949 was 23.90 inches. This amount is 3.53 inches below the Normal and 4.01 inches below the previous fifty years average.

The months of the year in which rainfall exceeded the Normal were October and November. The month of July was the driest with 0.18 inch, falling below the Normal amount by 1.86 inches. October was the wettest month, with 7.57 inches, this amount being 3.95 inches above the Normal. The heaviest day's rainfall was 1.34 inch on October 20th. There were 120 days on which 0.01 inch or more rain fell, compared with 142 days which is the average number for the previous ten years.

One inch of rainfall is equivalent to 100.925 tons per acre or 14.4686 millions of gallons per square mile.

Winter Rainfall. Total for six months (January to March and October to December) was 16.56 inches, compared with an average winter rainfall for the previous 10 years of 15.69 inches.

Summer Rainfall. Total for six months (April 1st to September 30th) was 7.34 inches, compared with an average summer rainfall for the previous ten years of 10.74 inches.

HUMIDITY.

The mean relative humidity of the atmosphere (percentage of saturation of the air) at 9 a.m. was 82% compared with the previous five years average of 81%

BAROMETER.

The mean barometric reading for the year was 30.081 inches (when reduced to sea level and to [a temperature of 32° Fahr.) the average for the previous ten years being 29.985 inches. The highest reading for the year was 30.855 inches on January 30th, and the lowest reading was 28.594 inches on January 1st. The absolute range for the year was 2.261 inches and the average range for the previous ten years 1.830 inch.

One inch barometric pressure is equivalent to 70.727 lbs. per square foot.

TEMPERATURE.

The mean temperature for the year was 52.8° Fahr., which is 2.8° above the Normal. This was the warmest year since records were commenced in 1881. The highest shade temperature for 1949 was 81° recorded on July 24th and the lowest 29° on February 3rd and 4th. The extreme range of temperature was 52° compared with the average range of 61.8° for the previous ten years. The temperature on the grass fell below 30.5° on 57 nights. The lowest temperature on the grass was 20° during the night of March 20th.

Earth Temperatures. The highest and lowest temperatures at various depths in the earth were as follows:—

<i>Below Surface</i>	<i>Highest</i>	<i>Date</i>	<i>Lowest</i>	<i>Date</i>
1 ft.	69.0°	July 26th	35.5°	February 6th
2 ft.	68.0°	July 27th	38.5°	January 30th
4 ft.	64.5°	July 30th	43.7°	February 8th
6 ft.	61.8°	Sept. 15th	46.7°	February 17th

WIND.

Percentages of direction of wind from 365 observations taken at 9 a.m. throughout the year:—

	<i>9 a.m.</i>		<i>9 a.m.</i>
	%		%
N.	10.9	S.	9.0
N.E.	12.7	S.W.	20.6
E.	4.5	W.	14.4
S.E.	10.9	N.W.	17.0
Calm	—		

TABLE 1.—**BRIGHT SUNSHINE (Mainland Stations).**(Extract from Table of Official Returns of the Meteorological Office,
Air Ministry).

<i>Station</i>					<i>Hours</i> <i>Year 1949</i>
Calshot ..	..	..	..	..	2179.0
Eastbourne ..	..	..	..	..	2153.3
WORTHING ..	..	..	..	..	2128.9
Tangmere ..	..	..	..	..	2125.5
Hankham ..	..	..	..	..	2112.6
Seaford ..	..	..	..	..	2107.9
Portsmouth ..	..	..	..	..	2094.8
Hastings ..	..	..	..	..	2089.1
Lympne ..	..	..	..	..	2080.3
Folkestone ..	..	..	..	..	2075.9
Bexhill ..	..	..	..	..	2072.1
Brighton ..	..	..	..	..	2068.6
Teignmouth ..	..	..	..	..	2066.2
Poole ..	..	..	..	..	2064.5
Bournemouth ..	..	..	..	..	2058.6
Swanage ..	..	..	..	..	2057.8
Southampton ..	..	..	..	..	2055.5
Weymouth ..	..	..	..	..	2055.3
Littlehampton ..	..	..	..	..	2041.3
Torquay ..	..	..	..	..	2039.7
Exmouth ..	..	..	..	..	2036.8
Dawlish ..	..	..	..	..	2030.9
Wye ..	..	..	..	..	2028.5
Bognor Regis ..	..	..	..	..	2027.1
Margate ..	..	..	..	..	2025.2
Plymouth ..	..	..	..	..	2025.2
Rye ..	..	..	..	..	2022.8
Clacton-on-Sea ..	..	..	..	..	2017.7
Whitstable ..	..	..	..	..	2013.2
Manston ..	..	..	..	..	2012.5
Tunbridge Wells ..	..	..	..	..	2009.6
Southend-on-Sea ..	..	..	..	..	1994.5
Falmouth ..	..	..	..	..	1993.0
Paignton ..	..	..	..	..	1983.6
Walton-on-Naze ..	..	..	..	..	1964.7
Penzance ..	..	..	..	..	1959.5
Newton Abbot ..	..	..	..	..	1945.6
Ellbridge ..	..	..	..	..	1945.0
Exeter ..	..	..	..	..	1939.2
Porton ..	..	..	..	..	1937.1

TABLE 2.—BRIGHT SUNSHINE.

Averages extracted from Air Ministry official publications for periods:—

1901—1930.

<i>Town</i>			<i>Hours of Sunshine</i>
WORTHING	..	..	1834
Bognor Regis	..	..	1827
EASTBOURNE	..	..	1826
Sandown	..	..	1814
HASTINGS	..	..	1801
Southsea ..	..	..	1801
Littlehampton	..	..	1800

1906—1935.

<i>Town</i>			<i>Hours of Sunshine</i>
WORTHING	..	..	1834
EASTBOURNE	..	..	1833
BOGNOR REGIS	..	..	1822
SANDOWN	..	..	1814
HASTINGS	..	..	1797
VENTNOR	..	..	1792
Littlehampton	..	..	1791

NOTE:—Capitals indicate *complete* averages for 30 years.

TABLE 3.—BRIGHT SUNSHINE.

Month	Total Hours Bright Sunshine	Average for 20 years 1929 - 1948 (incl).	Hours Daily Mean	Percentage of average %	Days with Sunshine	Most in one day Hours	Monthly Totals			
							Highest		Lowest	
							Hours	Year	Hours	Year
January	..	90.0	2.9	136	22	7.9	109.9	1940	34.5	1912
February	..	140.3	5.0	160	28	9.5	140.3	1949	29.8	1947
March	..	129.3	4.2	90	23	10.7	220.8	1907	95.3	1916
April	..	224.7	7.5	124	26	12.9	267.2	1912	105.3	1905
May	..	268.2	8.7	116	31	14.0	353.1	1909	148.9	1932
June	..	247.8	8.3	105	30	14.8	318.8	1925	143.5	1909
July	..	299.4	9.7	128	30	14.8	369.0	1911	133.8	1944
August	..	255.4	8.2	118	31	14.6	298.4	1899	112.6	1912
September	..	171.3	5.7	102	28	10.5	262.6	1898	97.1	1945
October	..	134.7	4.3	110	27	10.3	181.6	1919	81.9	1915
November	..	96.4	3.2	121	23	8.1	131.3	1909	44.4	1934
December	..	71.4	2.3	129	18	6.9	96.0	1946	31.1	1903
Year 1949..	2128.9	1813.9	5.83	119	317	14.8	369.0	July 1911	31.1	Dec. 1903
Highest and Lowest Year Totals							2141.0	1899	1600.2	1913

TABLE 4.—BRIGHT SUNSHINE.

Year	Campbell-Stokes Recorder Bright Sunshine Hours	Bright Sunshine Days	Sunniest Days	
			Day	Hours
1929	2062.5	313	July 15th	14.8
1930	1821.4	320	June 29th	15.4
1931	1610.5	309	June 27th	15.0
1932	1616.7	313	June 15th	15.0
1933	2102.6	323	July 4th	15.2
1934	1811.0	289	July 10th	15.5
1935	1805.2	309	July 8th	15.0
1936	1675.0	310	June 23rd	15.2
1937	1668.3	317	June 6th	14.4
1938	1796.4	310	June 21st	15.3
1939	1809.7	310	June 1st	15.4
1940	1976.8	323	July 1st	15.2
1941	1791.7	317	June 25th	15.2
1942	1711.6	312	June 5th	14.8
1943	1864.8	313	June 24th	14.9
1944	1765.5	315	June 24th	14.9
1945	1783.9	309	June 17th	14.8
1946	1790.7	307	July 10th	15.1
1947	1896.8	294	June 10th	14.9
1948	1916.9	319	May 18th	14.9
1949	2128.9	317	July 10th	14.8
Average for 20 years 1929—1948	1813.9	312		

TABLE 5.—RAINFALL.

1949	Total Rain- fall	Difference from the Normal	Greatest Fall in 24 hours beginning 9 a.m.	Number of Days with		Total Rain Days
				.01 in. to .03 in.	.04 in. or more	
January ..	inches 1.25	inches — 1.07	inches 0.66	5	7	12
February ..	1.00	— 0.97	0.54	4	5	9
March ..	1.23	— 0.73	0.64	1	4	5
April ..	1.16	— 0.41	0.23	2	9	11
May ..	1.45	— 0.20	0.50	5	7	12
June ..	0.77	— 0.96	0.50	3	3	6
July ..	0.18	— 1.86	0.07	3	2	5
August ..	2.11	— 0.13	0.92	3	5	8
September ..	1.67	— 0.45	0.77	—	5	5
October ..	7.57	+ 3.95	1.34	1	16	17
November ..	3.47	+ 0.29	0.74	2	12	14
December ..	2.04	— 0.99	0.68	8	8	16
Year ..	23.90	— 3.53	1.34	37	83	120

TABLE 6.—RAINFALL.

Year	Rainfall in inches	No. of Days Rain fell (0.01 inch or more)	Greatest Fall in a Day	
			Amount in inches	Day and Month
1929	29.71	134	1.21	16th August
1930	28.31	169	0.85	2nd August
1931	25.80	147	1.25	10th November
1932	23.91	148	1.22	20th October
1933	20.40	125	1.44	12th September
1934	27.49	139	1.62	8th November
1935	37.74	173	1.39	7th November
1936	27.42	169	1.79	6th November
1937	31.59	162	0.87	4th February
1938	22.95	156	0.75	24th September
1939	34.42	171	1.41	13th October
1940	30.13	148	1.50	3rd November
1941	25.83	139	1.36	4th June
1942	24.62	129	1.06	25th October
1943	23.68	145	1.74	13th January
1944	22.14	136	1.22	20th October
1945	22.98	138	2.05	10th July
1946	30.96	170	2.02	16th August
1947	24.31	139	0.94	10th March
1948	25.23	154	1.41	6th August
Average for 20 years	26.98	149	2.05	10th July 1945
1949	23.90	120	1.34	20th October

TABLE 7.—BAROMETRIC PRESSURE AND TEMPERATURE

1949.	Barometric Pressure (Reduced to Sea Level and 32° Fahr.)			Air Temperature in Screen					
	Mean Inches.	Extremes.		Means of		Mean of A&B	Difference from Normal.	Extremes	
		Highest	Lowest	A Max.	B Min.			Max.	Min.
January ..	30.222	30.855	28.594	48	40	44	+ 1.6	52	32
February ..	30.380	30.816	29.587	49	38	44	+ 4.4	54	29
March ..	30.182	30.569	29.830	49	37	43	—	62	30
April ..	30.078	30.414	29.549	56	45	51	+ 3.5	67	33
May ..	29.986	30.549	29.527	59	47	53	— 0.5	65	36
June ..	30.138	30.342	29.741	65	53	59	+ 1.0	80	44
July ..	30.132	30.413	29.778	71	58	65	+ 4.3	81	50
August ..	30.128	30.571	29.372	71	58	65	+ 3.0	77	49
September ..	30.039	30.312	29.664	70	59	65	+ 7.3	78	49
October ..	30.018	30.525	29.432	63	52	58	+ 6.4	70	35
November ..	29.729	30.509	29.160	51	42	47	+ 1.4	57	33
December ..	29.945	30.489	29.468	49	40	45	+ 1.2	55	30
Year 1949 ..	30.081	30.855	28.594	58	47	53	+ 3.0	81	29

TABLE 8.—CLIMATE OF WORTHING—1881—1949.

Year	Temperatures							Rainfall		Sunshine	Year
	Means					Extremes		Amount at Observ- atory	Number of days rain fell	Number of hours in year	
	9 a.m.	Min.	Max.	Range	Mean	Min.	Max.				
								Degrees							Inches
1881 ..	50.3	43.4	55.0	11.6	49.2	13.5	82.0	29.60	142	—	..1881
1882 ..	51.6	45.1	56.5	11.4	50.8	26.6	81.0	32.35	180	—	..1882
1883 ..	50.7	43.9	55.9	12.0	49.9	23.3	75.7	26.05	174	—	..1883
1884 ..	52.0	45.6	56.8	11.2	51.2	27.0	83.3	23.51	126	—	..1884
1885 ..	50.0	48.7	55.1	11.4	49.4	25.2	81.7	28.09	156	—	..1885
1886 ..	50.0	44.0	55.2	11.2	49.6	23.2	78.0	31.89	164	—	..1886
1887 ..	48.4	41.6	54.1	12.5	47.9	17.4	82.0	21.28	137	—	..1887
1888 ..	48.0	42.4	53.3	10.9	47.8	20.2	78.8	25.88	181	—	..1888
1889 ..	49.5	42.7	54.8	12.1	48.8	21.9	81.5	23.92	159	—	..1889
1890 ..	49.4	42.2	54.6	12.4	48.4	14.9	78.0	22.84	149	—	..1890
1891 ..	49.4	42.4	54.8	12.2	48.4	16.5	77.0	29.86	172	—	..1891
1892 ..	49.1	41.8	54.5	12.7	48.2	20.2	76.0	23.73	141	—	..1892
1893 ..	52.3	44.0	57.7	13.7	50.9	18.2	84.7	25.12	142	—	..1893
1894 ..	51.2	44.9	52.8	10.9	50.3	12.9	80.2	35.71	184	—	..1894
1895 ..	50.4	43.0	56.5	12.5	49.3	16.2	77.9	26.09	162	—	..1895
1896 ..	51.0	43.3	56.5	13.2	49.9	22.9	80.7	25.74	152	—	..1896
1897 ..	51.4	44.7	56.9	12.2	50.8	21.9	80.7	26.07	172	—	..1897
1898 ..	52.2	45.7	57.6	11.9	51.6	27.0	80.9	22.51	158	—	..1898
1899 ..	51.9	45.0	57.6	12.6	51.3	23.6	84.4	26.23	144	2141.0	..1899
1900 ..	51.2	44.9	56.2	11.3	50.6	20.9	79.0	26.33	182	1885.6	..1900
1901 ..	50.2	43.6	55.8	12.2	49.7	22.9	80.7	21.45	139	2017.0	..1901
1902 ..	50.2	43.6	55.0	11.1	49.6	21.8	78.0	23.77	157	1661.7	..1902
1903 ..	50.9	45.2	55.4	10.2	50.3	23.7	78.2	32.19	189	1749.2	..1903
1904 ..	50.4	44.3	55.5	11.2	49.9	23.8	77.4	26.85	163	1748.4	..1904
1905 ..	50.1	42.2	55.6	11.4	49.1	23.9	77.1	24.63	162	1715.3	..1905
1906 ..	50.6	44.3	56.1	11.8	50.2	24.9	78.6	30.44	173	2010.6	..1906
1907 ..	50.2	45.1	54.8	9.5	50.0	20.4	76.1	21.78	158	1776.8	..1907
1908 ..	50.9	44.1	56.1	12.1	50.1	16.0	80.2	22.15	146	1991.3	..1908
1909 ..	49.7	43.0	54.6	11.6	48.8	19.9	81.2	32.11	178	1958.6	..1909
1910 ..	50.8	44.5	55.9	11.5	50.1	21.9	73.8	32.57	191	1731.0	..1910
1911 ..	52.8	45.1	58.0	12.9	51.5	25.4	87.9	31.68	149	2115.0	..1911
1912 ..	51.6	45.0	56.6	11.6	50.8	19.0	84.2	35.95	192	1609.9	..1912
1913 ..	52.1	45.9	57.4	11.5	51.6	26.2	79.0	34.98	170	1600.2	..1913
1914 ..	52.7	45.2	57.9	12.7	51.5	23.2	78.2	31.31	164	2000.5	..1914
1915 ..	51.1	43.8	56.3	11.8	50.5	24.7	77.1	36.64	152	1801.3	..1915
1916 ..	51.2	44.7	56.3	11.6	50.5	25.0	77.0	32.89	182	1658.0	..1916
1917 ..	49.2	43.0	54.6	11.6	48.8	20.7	79.0	25.49	147	1804.7	..1917
1918 ..	51.0	44.7	56.5	11.8	50.6	20.0	78.0	24.41	165	1856.5	..1918
1919 ..	49.4	42.9	54.9	12.0	48.9	22.0	78.5	28.54	158	1788.5	..1919
1920 ..	51.7	45.6	56.6	11.0	51.1	23.0	76.0	26.40	139	1692.1	..1920
1921 ..	53.4	46.4	58.8	12.4	52.6	27.6	86.7	13.26	108	2101.5	..1921
1922 ..	50.1	43.9	54.8	10.9	49.3	25.2	78.2	25.71	159	1781.2	..1922
1923 ..	50.8	44.5	55.6	11.1	50.1	24.0	86.0	30.62	170	1805.9	..1923
1924 ..	50.8	45.4	55.3	9.9	50.3	25.0	74.6	32.65	159	1759.6	..1924
1925 ..	49.8	44.7	55.9	11.2	50.3	24.0	80.2	34.70	158	1955.8	..1925
1926 ..	51.6	45.7	56.7	11.0	51.2	21.8	83.3	28.57	160	1677.7	..1926
1927 ..	50.8	45.0	55.8	10.8	50.4	22.4	78.1	34.88	165	1731.4	..1927
1928 ..	51.9	45.1	57.0	11.9	51.0	21.6	82.0	32.84	161	1999.1	..1928
1929 ..	50.9	44.1	56.0	11.9	50.0	13.0	80.0	29.71	134	2062.5	..1929
1930 ..	52.0	46.9	56.4	9.5	51.3	26.0	82.6	28.31	169	1821.4	..1930
1931 ..	51.0	45.0	55.0	10.0	50.0	21.0	77.0	25.80	147	1610.5	..1931
1932 ..	50.5	45.1	55.8	10.7	50.5	23.0	80.0	23.91	148	1616.7	..1932
1933 ..	52.0	45.5	56.4	10.9	51.2	23.6	81.2	20.40	125	2102.6	..1933
1934 ..	52.1	45.6	57.5	11.9	51.8	24.0	82.0	27.49	139	1811.0	..1934
1935 ..	51.8	46.1	56.6	10.5	51.3	25.6	83.8	37.74	173	1805.2	..1935
1936 ..	51.3	45.4	55.9	10.5	50.7	27.1	81.3	27.42	169	1675.0	..1936
1937 ..	51.5	46.3	57.2	10.9	51.8	26.0	76.8	31.59	162	1668.3	..1937
1938 ..	52.7	46.1	57.1	11.0	51.6	19.5	82.5	22.95	156	1796.4	..1938
1939 ..	51.8	45.8	56.5	10.7	51.2	20.0	81.5	34.42	171	1809.7	..1939
1940 ..	50.0	45.0	56.0	11.0	50.5	16.0	80.0	30.13	148	1976.8	..1940
1941 ..	50.3	44.0	56.0	12.0	50.0	22.0	83.0	25.83	139	1791.7	..1941
1942 ..	50.0	44.8	55.3	10.5	50.5	19.0	83.0	24.62	129	1711.6	..1942
1943 ..	52.0	46.0	58.0	12.0	52.0	28.0	80.0	23.68	145	1864.8	..1943
1944 ..	51.3	45.4	56.2	10.8	50.8	26.0	81.0	22.14	136	1765.5	..1944
1945 ..	52.5	46.5	57.2	10.7	51.2	19.0	80.0	22.98	138	1783.9	..1945
1946 ..	51.6	45.5	55.7	10.2	50.6	23.0	76.0	30.96	170	1790.7	..1946
1947 ..	51.3	45.7	56.1	10.4	50.9	15.0	90.0	24.31	139	1896.8	..1947
1948 ..	52.6	46.6	57.6	11.0	52.1	17.0	88.0	25.23	154	1916.9	..1948
1949 ..	53.3	47.2	58.4	11.2	52.8	29.0	81.0	23.90	120	2128.9	..1949

TABLE 9.—WINDS.

Month.	9 a.m. OBSERVATIONS.—DIRECTION.								
	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm
January	5	2	2	—	3	4	7	8	—
February	2	2	2	2	3	6	5	6	—
March	9	7	1	3	1	2	2	6	—
April	3	2	3	3	1	11	3	4	—
May	3	7	—	4	3	8	3	3	—
June	5	1	1	3	6	9	1	4	—
July	3	3	—	6	4	5	2	8	—
August	2	2	—	5	3	7	8	4	—
September	2	8	3	3	5	2	5	2	—
October	—	6	1	7	1	8	3	5	—
November	3	6	1	1	3	5	2	9	—
December	3	—	2	3	—	8	11	4	—
Year 1949	40	46	16	40	33	75	52	63	—

TABLE 10—CLOUD AND HUMIDITY.

Month.	Cloud Amount Scale 1-8	Mean Relative Humidity	Mean Humidity previous 5 years 1944-1948
	9 a.m.	9 a.m.	9 a.m.
January	5	% 90	% 86
February	3	86	89
March	4	80	83
April	3	80	75
May	4	79	76
June	4	77	75
July	3	71	76
August	4	78	78
September	4	85	79
October	5	86	82
November	5	87	87
December	5	88	87
Year 1949	4	82	Yearly average 81

TABLE 11.—VISIBILITY.

Summary of observations taken at 9 a.m.

MONTH	FOG			MIST OR HAZE			GOOD VISIBILITY				
	A	B & C	D & E	F	G	H	I	J	K	L	M
January	—	—	5	3	5	4	10	2	1	—	1
February	—	—	—	3	6	2	8	7	1	1	—
March	—	—	1	4	4	2	10	8	—	1	1
April	—	—	—	—	2	6	6	4	3	4	5
May	—	—	—	—	—	1	6	8	4	—	12
June	—	—	—	—	—	1	7	5	11	1	5
July	—	—	—	—	—	1	3	5	11	—	11
August	—	—	—	—	—	2	9	4	3	3	10
September	—	—	—	—	2	5	7	4	2	6	4
October	—	—	—	1	—	6	6	4	5	4	5
November	—	—	—	2	3	5	8	4	5	2	1
December	—	—	1	7	2	1	8	8	—	—	4
Year 1949	—	—	7	20	24	36	88	63	46	22	59

KEY TO TABLE 11.—VISIBILITY.

Letter	Standard Distance	Actual Distance	Description of visibility	Object	View Point	Bearing
A	22 yards	21 yards	Dense Fog	Chestnut tree on opposite side of road	Office Door	S.E.
B	44 yards	45 yards	Dense Fog	Chestnut tree outside entrance to "Ryecroft"	Office Gate	E.
C	110 yards	110 yards	Thick Fog	N.W. corner of Town Hall	Office Gate	E.
D	220 yards	220 yards	Fog	Christ Church Tower	Office Window	S.
E	440 yards	430 yards	Moderate Fog	Holy Trinity Church Spire	Christ Church Tower	S.W.
F	1100 yards	1100 yards	Mist or Haze	Heene Church Tower	" "	W.
G	1 $\frac{1}{4}$ miles	1 $\frac{1}{4}$ miles	Poor	Tarring Church Tower	" "	N.W.
H	2 $\frac{1}{2}$ miles	2 $\frac{3}{4}$ miles	Moderate	Top of High Salvington Hill	" "	N.W.
I	4 $\frac{1}{3}$ miles	4 $\frac{1}{4}$ miles	Good	Highdown Hill	" "	W.N.W.
J	6 $\frac{1}{4}$ miles	6 $\frac{5}{8}$ miles	Good	Portslade Gas Works Chimney	" "	E.
K	12 $\frac{1}{2}$ miles	12 $\frac{1}{2}$ miles	Very Good	Hills beyond Brighton	" "	E.
L	18 $\frac{2}{3}$ miles	18 $\frac{1}{4}$ miles	Excellent	Selsey Bill	" "	W.S.W.
M	25 miles	27 miles	Abnormal	Beachy Head	" "	E.S.E.

WEST SUSSEX COUNTY COUNCIL.

WORTHING HEALTH SUB-COMMITTEE.

ANNUAL REPORT

on the

Administration of the Health Services provided
in the Borough of Worthing by the Local Health
Authority under Part III of the National Health
Service Act 1946 for the year 1949.

G. H. PRINGLE,
M.R.C.S., L.R.C.P., D.P.H.
Medical Officer.

WORTHING HEALTH SUB-COMMITTEE

(as at 31st December, 1949)

Councillor T. D. RABY, L.D.S., R.C.S.(Eng.), (*Chairman*)

County Councillor H. L. BAXENDALE (*Vice-Chairman*)

County Alderman D. BRYCE

County Alderman F. W. H. MIGEOD, F.R.G.S., F.R.A.I.

Councillor T. A. CLIFFORD

Councillor Mrs. C. S. CORTEEN, B.A.

County Councillor Mrs. A. ELLIOTT

County Councillor A. P. HARRIS, M.C.

Councillor Mrs. M. I. KEELE

Councillor R. A. MITCHELL

Councillor Mrs. R. E. SUMMERS

Dr. H. ROSENBERG

Health Department,
Worthing Lodge,
Stoke Abbott Road,
Worthing.
July, 1950.

To the Chairman and Members of the Worthing Health Sub-Committee.

Mr. Chairman, Ladies and Gentlemen,

I have the honour to present my Report for the first complete year's working of the Health Services in Worthing provided under Part III of the National Health Service Act. The day-to-day administration of the various sections of this part of the Act has been delegated to the Worthing Health Sub-Committee, and this report summarises the work carried out under each section during the year.

I would draw your particular attention to the increasing demands on the Home Nursing and Domestic Help Services. As would be expected in a town where the proportion of the aged population is extremely high, these services have been used to the fullest extent. At the conclusion of this report I have summarised the many difficulties that have occurred in a paragraph entitled "The Care and Nursing of the Aged and Chronic Sick".

I should like to take this opportunity of acknowledging the loyalty and willing assistance I have received from all members of the staff—medical, nursing, and clerical. I should also like to record my sincere appreciation of the assistance given by Dr. Bradshaw and members of his staff.

The need for maintaining the voluntary spirit in personal health services was mentioned in my report last year, and I am pleased to be able to thank once again the numerous voluntary helpers who have assisted either at clinics or in other branches of the work during the year.

Finally, I should like to express my appreciation of the helpful support I have always received from the Chairman and the members of the Sub-Committee.

I am,

Mr. Chairman, Ladies and Gentlemen,

Your obedient servant,

G. H. PRINGLE,
Medical Officer.

STAFF

Medical Officer

G. H. PRINGLE, M.R.C.S., L.R.C.P., D.P.H.

Deputy Medical Officer

J. C. AITKEN, M.B., CH.B., D.P.H.

Visiting Consultants and Part-time Medical Staff :

<i>Infant Welfare, Durrington and Findon Clinics:</i>	..	B. A. KERR, B.S., M.R.C.S., L.R.C.P.
<i>Infant Welfare, Central and Goring Clinics:</i>		M. HIGGS, M.B., B.S., M.R.C.S., L.R.C.P.
<i>Immunisation, Durrington Clinic:</i>	.. ..	B. A. KERR, B.S., M.R.C.S., L.R.C.P.
<i>Orthopaedic Surgeon:</i>	.. ..	R. BROOKE, M.B., F.R.C.S., D.P.H.
<i>Ophthalmic Surgeon:</i>	.. ..	S. D. WALLIS, M.R.C.S., L.R.C.P., D.O.M.S.
<i>Ear, Nose and Throat Surgeon:</i>	..	H. G. DOWNER, M.B., CH.B., D.L.O.R.C.P.S.
<i>Dental Officer:</i>	.. ..	Miss S. LEVY, L.D.S., R.C.S. (Eng.).
<i>Physiotherapist</i>	.. ..	Miss P. LYNCH, M.C.S.P., M.E.L.E.T.

Health Visiting Staff :

<i>Senior Health Visitor and Assistant County Nursing Superintendent</i>	..	MISS G. RICHES, S.R.N., S.C.M., H.V.Cert.
<i>Health Visitors</i>	.. ..	Mrs. E. M. ALLEN, S.R.N., S.C.M.
	.. ..	.. Miss G. CARTER, S.R.N., S.C.M., H.V. cert.
	.. ..	Miss C. MAW, S.R.N., Part I. S.C.M., H.V.Cert.
	.. ..	Miss G. ROBILLIARD, S.R.N., S.C.M., H.V.Cert.
	.. ..	.. Miss M. THOMAS, S.R.N., S.C.M., H.V.Cert.
	Miss M. A. G. WILLIAMS, S.R.N., S.C.M., H.V.Cert.

Midwifery Service :

<i>Establishment</i>	4 whole-time District Midwives.
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General Nursing Service :

<i>Establishment</i>	..	10 whole-time and 2 part-time District Nurses (the equivalent of 11 whole-time nurses).
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Domestic Help Service :

<i>Borough Organiser</i> MISS E. E. STEVENS*
--------------------------	-------	------------------------

Clerical Staff :

<i>Chief Clerk</i>	.. ..	T. L. CANTON
<i>Clerks</i>	.. ..	S. F. JUPP
		R. B. CARROLL
		MISS P. M. MAY
		MISS O. PARKER*
		MISS O. RAND
		MISS B. M. WHITE

Officers marked with an asterisk devote their whole-time to Part III Services.

CHILD WELFARE CENTRES.

There are four Welfare Centres in the Borough where mothers may take their children of pre-school age. Facilities are available for the purchase of Dried Milk, Cod-liver Oil and Malt, and other preparations. All the Centres are under the supervision of a Medical Officer.

Attendances at Child Welfare Centres :—

	<i>Central</i>	<i>Dur-</i> <i>rington</i>	<i>Goring</i>	<i>Findon</i> <i>Valley</i>	<i>Total</i>
(1) No. of clinics held ..	99	24	24	24	171
(2) No. of children who attended Centres ..	830	171	249	78	1328
(3) Total number of at- tendances made by children	6171	906	1345	526	8948
(4) Average attendance per clinic	62.3	37.7	56.0	21.9	52.3

The number of children who first attended at the Centres during the year, whilst they were under 1 year of age was 492, which shown as a percentage of the notified live births gives a figure of 61.66.

The attendances of children at all the Centres during the last ten years have been as follows:—

<i>Year</i>	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949
No. of attendances	8626	7556	11521	12215	14374	11941	13249	15928	9706	8948
% of first attend- ances to notified live births ..	68.16	69.54	73.40	67.86	72.33	65.22	56.53	65.52	61.33	61.66

Welfare Centres:—

The Central Clinic, Stoke Abbot Road, Worthing.
Monday and Friday at 1.45 p.m.

Church Hall, New Road, Durrington.
Second and fourth Thursday in each month at 2.0 p.m.

John Molson Hall, Mulberry Lane, Goring.
First and third Thursday in each month at 2.0 p.m.

Free Church Hall, Vale Walk, Findon Valley.
First and third Wednesday in each month at 2.30 p.m.

ORTHOPAEDIC CLINIC.

Mr. R. Brooke conducted a clinic each month, and sessions for physiotherapy were held on four afternoons each week.

The following table gives details regarding the use of this Clinic by children of pre-school age:—

	<i>Orthopaedic Surgeon</i>	<i>Physiotherapist</i>
No. of cases examined/treated ..	55	89
New cases	29	71
Old cases	26	18
Total attendances	80	1041
Number of patients supplied with orthopaedic appliances through the National Health Service		16
Number of patients admitted to hospital		5
Number of X-rays carried out		3

The following table analyses the cases seen by the Orthopaedic Surgeon during the year:—

<i>Diagnosis</i>	<i>Boys</i>	<i>Girls</i>	<i>Total</i>
<i>Congenital Defects</i>			
Club Foot	1	—	1
Dislocation of Hip	—	1	1
Other Conditions	1	1	2
<i>Birth Injuries</i>			
Torticollis	3	1	4
<i>Rickety Deformities</i>			
Bow Legs	2	5	7
Knock Knees	1	—	1
Knock-Knees (Non-rickety)	7	5	12
<i>Postural Defects of the Spine</i>	1	—	1
Flat Feet etc.	9	7	16
<i>Infantile Paralysis</i>	—	1	1
<i>Other conditions</i>	3	6	9
Total	28	27	55

OPHTHALMIC CLINIC

Children under five years of age attending the Welfare Centres who require ophthalmic treatment for defective vision or squint are referred for such treatment to the Ophthalmic Surgeon at the School Clinic, who holds one session each week.

During the year the following cases were referred:—

New cases	48
Re-examinations	41
Total attendances	90

ORTHOPTIC CLINIC.

A special clinic was commenced at the end of May 1950 under the supervision of a qualified Orthoptist and further details of attendances etc. will be given in my Annual Report for 1950.

EAR, NOSE AND THROAT CLINIC.

Children under five years of age attending the Welfare Centres and requiring treatment for ear, nose and throat defects are referred for such treatment to the Ear, Nose and Throat Specialist at the School Clinic.

During the year the following cases were referred:—

New cases	..	..	..	..	42
Old Cases	..	..	..	..	5
Total Attendance	..	..	..	..	53

The Specialist held 21 sessions during the year.

In addition 5 cases were given "displacement treatment" for chronic catarrhal conditions.

MINOR AILMENTS.

Arrangements are in force whereby children under school age attending the Welfare Centres, who require treatment for minor ailments, can attend the Minor Ailments Clinic of the School Health Service.

During the year 53 such cases were treated.

CARE OF PREMATURE INFANTS.

All infants weighing up to $5\frac{1}{2}$ lb. at birth are included under this heading and in Worthing a special note is made on the notification of birth cards in respect of all infants whose birth weight is $5\frac{1}{2}$ lbs. or less.

Special arrangements for the care of premature infants in their own homes are made within the Midwifery and Health Visiting Services, and infants who cannot be cared for at home are admitted to hospital.

Premature infants born in hospital are notified to the Department on discharge and are kept under supervision by the Health Visitors and invited to attend the Welfare Centres.

The following statement shows the survival rate of infants born prematurely at home and in private nursing homes to mothers normally resident in the Borough.

			<i>Born at home</i>	<i>Born in private nursing homes</i>
(a)	Total births	..	11	12
(b)	Died within 24 hours	..	—	—
(c)	Died within 7 days	..	—	—
(d)	Survived 1 month	..	11	12

DENTAL SERVICE.

Nursing and expectant mothers and children under five years of age may obtain dental treatment every Wednesday afternoon at the Dental Clinic, which is situated in the Central Clinic buildings.

The following Table gives details of the treatment carried out during the year:—

(a) Numbers provided with dental care:

	Examined	Needing treatment	Treated	Made dentally fit
Expectant and Nursing Mothers	138	136	126	66
Children under five	113	113	113	100

(b) Forms of dental treatment provided:

	Extract-ions	Anaesthetics		Fill-ings	Scalings or Scaling and gum treatment	Silver Nitrate treat-ment	Dress-ings	Radio-graphs	Dentures provided		Den-tures repaired
		Local	Gen-eral						Com-plete	Par-tial	
Expectant and Nursing Mothers ..	110	73	5	180	45	—	39	Nil	2	14	5
Children under five ..	118	61	32	51	—	23	—	—	—	—	—

Dental X-rays are carried out at Worthing Hospital and arrangements exist for the supply of dentures locally.

ANTE-NATAL AND POST-NATAL CLINICS.

Two combined ante-natal and post-natal clinics have been in operation throughout the year. These have been held at the Central Clinic, Stoke Abbott Road, every Tuesday and Wednesday afternoon.

The following is a summary of attendances etc. at these clinics:—

Medical Officer's Clinic

No. of clinics ..	..	..	..	51
New cases—				
ante-natal	..	..	..	261
post-natal	..	..	..	31
Re-examinations—				
ante-natal	..	..	..	903
post-natal	..	..	..	—
Total attendance	..	..	..	1,195

Midwives' Clinic

No. of clinics ..	..	..	..	49
New cases ..	..	..	..	114
Total attendance	..	..	..	566

ANTE-NATAL AND POST-NATAL RELAXATION EXERCISES CLINIC.

A special clinic was commenced in November under the supervision of Miss P. Lynch, M.C.S.P., who also undertakes the physiotherapeutic work in connection with the orthopaedic clinic.

The clinic is held once weekly at the Central Clinic, Stoke Abbott Road, and the following is a summary of attendances etc:

No. of Clinics..	..	..	..	7
Total attendances	..	..	..	74

DOMICILIARY MIDWIFERY SERVICE.

There are four whole-time certificated midwives in the Borough, who are available for attendance on women in their homes. Details of cases attended and the number of visits made are set out in the following Table :—

Confinements attended—				
as midwife	..	...	..	126
as maternity nurse		..	..	159
Analgesia administered—				
as midwife	..	..	..	72
as maternity nurse		..	..	89
Nursings—				
as midwife	..	..	..	2286
as maternity nurse		..	..	2825
Ante-natal visits	..	..	..	2965
Miscellaneous visits	..	..	..	281
No. of maternal deaths during the year	..	..	..	1
(Patient died in a Nursing Home in the Borough)				
No. of still-births during the year	..	..	..	20

HEALTH VISITING IN THE HOMES.

Seven Health Visitors devote half their time to duties connected with the Health Services provided under Part III of the National Health Service Act 1946. Part of these duties is concerned with Section 24 of the Act which includes the visiting of persons in their homes for the purpose of giving advice as to the care of young children, persons suffering from illness, and expectant or nursing mothers, and as to the measures necessary to prevent the spread of infection.

The following are details of visits made by the Health Visitors during the year:—

Expectant and nursing mothers. Total visits	..	..	629
First visits to infants under 1 year of age ...	..	..	812
Re-visits to infants under 1 year of age	..	..	2,717
Children 1-5 years. Total visits	..	..	4,861
Infant deaths	..	..	9
Stillbirths	..	..	14
Infectious disease visits	..	..	189
Tuberculosis visits	..	..	489
Investigation of social conditions of chronic sick cases		..	145
Home visits in connection with Domestic Help Service		..	61
Special visits	..	..	281

PREVENTION OF ILLNESS, CARE AND AFTER-CARE.

(1) Tuberculosis.

The Health Visitors continued to attend at the Chest Clinics held at Worthing Hospital. They also made 489 visits to patients in their own homes.

The Worthing Area Committee of the Sussex Rural Community Council has met quarterly and has been instrumental in helping many patients and their families.

(2) Care and after-care.

At the beginning of 1950 a Care Almoner was appointed for Worthing and district for the purpose of following up, when necessary, persons discharged from hospital.

(3) Prevention of Illness.

The Health Visitors continued to play an important part in health education during the year. In addition exhibition stands relating to various aspects of the Health Services were erected in the clinics, and the Medical Officer of Health gave a number of talks to local organisations in the Borough on the National Health Service Act.

VACCINATION AND IMMUNISATION.

1. Vaccination.

At the present time fifty medical practitioners in Worthing are taking part in the Local Health Authority's arrangements for the completion of record cards of vaccinations performed, and during the year returns of 255 vaccinations were received. Of these the number of primary vaccinations in infants under one year was 67.

Unfortunately there was a considerable delay in reaching agreement with the British Medical Association on the matter of payment for completing these returns, and as a result it was considered probable that the number of record cards received would be lower than the actual number of vaccinations carried out. The Health Visitors' reports show that 236 infants under one year were actually vaccinated during the year. Although this is many more than those for whom records had been received the percentage vaccinated is only 28.8 and in common with the country as a whole this must be considered to be a dangerously low figure.

2. Diphtheria Immunisation.

During the year 612 children received complete treatment as compared with 844 in the previous year. 463 children were immunised at the Clinics and 149 by medical practitioners.

TABLE A.

The following Table gives details of the treatment undertaken during the year:—

Number of children who completed a full course of primary immunisation			Number of children receiving a reinforcing injection	
Age at date of Final Injection		Total	At Clinics	By medical practitioners
Under 5	5-14			
555	57	612	436	34

TABLE B.

Immunisation in Relation to Child Population.

Age at 31.12.49 i.e. born in year	Under 1 1949	1 1948	2 1947	3 1946	4 1945	5 to 9 1940-44	10 to 14 1935-39	Total under 15
Number immunised	42	470	631	569	430	2192	2115	6449
Estimated mid-year child population 1949	Children under five 4153					Children 5-14 7258		11411

Diphtheria immunisation is carried out at the following clinics:—

Central Clinic	..	Tuesday at 2.30 p.m.
Durrington Clinic	..	Monday at 2.30 p.m. at monthly intervals.
Goring Clinic	..	As required.
Findon Valley Clinic	..	As required.

AMBULANCE SERVICES

Since the 5th July, 1948, the St. John Ambulance Brigade has acted as agent for the County Council in operating the Ambulance and Hospital Car Services in the Borough of Worthing.

During the year the Worthing Ambulance Division carried 3,701 patients covering a total distance of 58,080 miles.

HOME NURSING SERVICE.

The services of the Home Nurses are provided on the recommendation of a doctor to any patient requiring such service. The nursing staff at the 31st December comprised an Assistant County Superintendent Nursing Officer, 9 full-time and 2 part-time Home Nurses.

The following Table gives particulars of the number of cases dealt with during the year under review:—

No. of cases attended by Home Nurses	..	..	1,637
No. of visits paid by Home Nurses	..	..	34,680

It is of interest to note that during the period 5th July to 31st December, 1948, the total number of nursing visits was 11,963 (*i.e.* at the approximate rate of 23,926 per year) and for the whole of the year 1949 the number of these visits was 34,680, representing an increase of 45 %.

Having regard to the fact that a high proportion of the patients attended are chronic cases involving heavy lifting and often taking a considerable time, this great increase in the work is unlikely to be maintained without increasing the nursing staff. Only by working long hours and the foregoing of days "off duty" have the nurses been able to deal with all their calls, and it is hoped therefore that serious consideration will be given to an increase of the personnel of this service.

DOMESTIC HELP SERVICE.

This service was well established in Worthing before the National Health Act came into force, and has continued to provide assistance where Domestic help is required in connection with cases of illness, aged persons, maternity cases and other cases of need. Applications for help are only approved on the recommendation of a doctor or midwife, and all circumstances are carefully investigated in order to assess the amount of help required.

A charge is made for the services of a Domestic Help, the amount being determined according to the financial circumstances of the applicant.

Applications for Assistance.	<i>Maternity Cases</i>	<i>Other Cases</i>	<i>Total</i>
(a) No. of cases receiving assistance at 1st January, 1949	28	80	108
(b) No. of new applications received ..	107	328	435
(c) No. of cases in (b) assisted ..	77	308	385
(d) No. of cases in (b) approved, but for which assistance was not available ..	—	10	10
(e) No. of cases in (b) not approved ..	—	—	—
(f) No. of applications in (b) withdrawn			
(i) Before arrangements made ..	17	3	20
(ii) After arrangements made ..	1	1	2
(g) No. of cases in (a) and (b) completed during the year	97	241	338
(h) No. of cases receiving assistance at end of year	8	147	155

Number of Domestic Helps employed at 31st December, 1949:—

(a) Whole-time .. 12 (b) Part-time .. 18

THE CARE AND NURSING OF THE AGED AND CHRONIC SICK

As one would expect in a Borough in which 24 per cent of the total population is aged 65 and over, a large number of persons were admitted to hospitals or residential accommodation, or through the agencies of the Home Nursing and Domestic Help services were assisted to continue to live in their own homes.

One of the major difficulties has been caused by a section of the aged who are not considered to be able-bodied enough for admission to one of the County Council homes, but at the same time cannot be regarded as chronic sick cases for admission to hospital. The need for residential accommodation to meet this type of case is very great.

Co-operation between hospital, local authority, and general practitioner services has been excellent. Had this not been the case the limited resources available to deal with a major and a growing problem in this area would have broken down completely. A rigid selection as regards admission to hospital beds for the chronic sick has been necessary and where the predominant need for admission has been on social grounds an investigation of the home conditions has been undertaken and a report sent to the hospital authority. This procedure maintains a valuable link between the hospital and local authority's services.

The problem of the aged is not likely to decrease in Worthing, and in considering their welfare the provision of houses of special design is an important long term policy. The vast majority of the aged are far happier if they can be cared for in their own homes and to this end it is essential that there should be adequate Home Nursing facilities and Domestic Help services, both of which can not only contribute to this happier existence, but by reducing admissions to hospitals and other institutions considerable savings on the continually increasing cost of residential care can be effected.

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